Manuel de Service

Téléviseur couleur

TC-24A1F / 28A1F Châssis ALPHA-2W



Caractéristiques

Alimentation:

AC 220 V, 50 Hz

Consommation:

Consommation horaire en courant

alternatif: 89 Wh

Impédance d'antenne: 75 a asymétrique sur prise coaxiale

Système de réception : SECAM (L L'), (B G)

PAL (1), (B G)

Canaux de réception :

ch. E2-E12 (SECAM / PAL B G) VHF

ch. 2-10 (SECAM L L')

ch. E21-E69 (SECAM / PAL B G.)

ch. 21-69 (SECAM L, PAL I)

CATV ch. B-Q

Fréquence

Intermédiaire: Vidéo 32,7 MHz

Son

39,2 MHz

Couleur 35,07 MHz

37,106 MHz

Les bornes vidéo / audio :

AV1 / Entrée 21 broches Vidéo 1 V c-à-c 75 o

Audio 0,67 V rms 10 kg

AV1 / Sortie 21 broches Vidéo 1 V c-à-c 75Ω

> Audio 0,67 V rms 10 kΩ (100% modulation)

AV2 / Entrée 21 broches Vidéo 1 V c-à-c 75 Ω

S-Video Y: 1,0 V c-à-c 75 p

C: 0,3 V c-à-c 75 o

Audio 0,67 V rms 10 kΩ AV2 / Sortie 21 broches Vidéo 1 V c-à-c 75 Ω

Audio 0,67 V rms 10 kg

(100% modulation)

AV3 / Entrée Vidéo 1 V c-à-c 75 n

Audio 0,67 V rms 10 ka

Tension d'anode: 28,0 (+1,0,-1,5) kV

A59EAK22X01 (TC-24A1F) 63 cm Tube Image:

A66EAK22X01 (TC-28A1F) 70 cm

mesure diagonale, 110° de déviation

Sortie audio:

Haut-parleur intérieur :

2 x 10 W Impédance 8 o

(Taux de distorsion musical 10 %)

Haut-parleur extérieur :

2 x 20 W Impédance 4-8 p

(Taux de distorsion musical 10 %)

Casque d'écoute : Impédance 8 o

Enceinte

acoustique: 2 haut-parleurs à 2 voies, G / D

TC-24A1F TC-28A1F

Hauteur:

522 mm

572 mm

Largeur:

628 mm Profondeur: 460 mm

686 mm

489 mm

Poids (NET):

Dimensions:

39 kg

Accessoires

Télécomande x 1 fournis:

UM4 Piles x 2

Les caractéristiques techniques sont susceptibles de modification sans Préavis. Le poids et les dimensions indiqués sont approximatifs.

Panasonic

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PRECAUTIONS DE SECURITE

CONSEILS GÉNÉRAUX

- Avant d'effectuer toute révision d'un châssis sous tension, il est recommandé d'installer un transformateur d'isolation.
- Il est important, lors des réparations, de conserver la position initiale de tous les fils et faisceaux, surtout dans le circuit de la haute tension. Remplacer toutes les pièces affectées par la chaleur dégagée lors d'un court - circuit.
- Après les réparations, s'assurer que toutes les pièces protectrices telles que barrières ou papiers isolants, blindages et réseaux d'isolation R-C soient convenablement placées.
- 4. Il est préférable de débrancher le fil d'alimentation si la télé - couleur ne doit pas être utilisée pendant un certain temps.
- 5. Une tension élevée, de l'ordre de 28,0 kV, est présente en plusieurs endroits lorsque l'appareil est en circuit. Il y a danger de chocs électriques lorsque le contact est établi en absence du panneau arrière. Toute personne qui tente de réparer cet appareil doit d'abord être consciente des précautions à observer avant de travailler sur un circuit à haute tension. Toujours décharger l'anode du tube cathodique au châssis avant de le manipuler.
- 6. Après toute réparation, on doit effectuer les tests de courant de fuite suivants dans le but d'éviter tout choc électrique.

VÉRIFICATION DES COURANTS DE FUITE SANS ALIMENTATION

- Débrancher le fil d'alimentation et installer un fil STRAP entre les deux broches de la fiche.
- Placer l'interrupteur comme pour établir le contact sur l'appareil.
- 3. Mesurer la résistance entre les branches de la fiche d'alimentation et les pièces métalliques visibles telles que têtes de vis, antennes, arbre des commandes, support des poignées, etc. Certaines de ces pièces sont en contact avec le châssis et la résistance mesurée devrait se situer entre 4 MΩ, et 20 MΩ. La résistance des pièces qui ne sont pas en contact avec le châssis doit être infinie ∞.

VÉRIFICATION A CHAUD DU COURANT DE FUITE

(Voir Fig. 1)

- Brancher le cordon secteur directement à une prise secteur. Ne pas utiliser de transformateur d'isolation pour cette vérification.
- Raccorder une résistance de 2 ko, 10 W, en série avec une partie métallique exposée du récepteur et une terre comme une conduite d'eau.
- Utiliser un voltmètre CA, de type à impédance élevée, pour mesurer le potentiel à travers la résistance.
- Vérifier toutes les parties métalliques exposées et mesurer la tension à chaque point.
- Retourner la fiche CA dans la prise secteur et répéter toutes les mesures ci - dessus.
- 6. Le potentiel à tous les points ne doit pas dépasser 1,4 volt RMS. Au cas où une mesure est supérieure à cette limite spécifiée, il y a un risque de décharge électrique et le récepteur doit être réparé et revérifié avant d'être rendu au client.

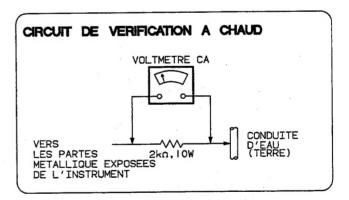


Fig. 1

IRRADIATION AUX RAYONS X

Attention:

- Les parties de la haute tension et du tube cathodique d'une télé - couleur sont des sources possible d'émissions de rayons X.
- Si un tube cathodique témoin est utilisée pour le service, s'assurer que son assemblage pourra supporter 29,0 kV sans, émettre de radiations.

Remarque: Il est important que le multimètre à haute tension utilisé soit étalonné périodiquement.

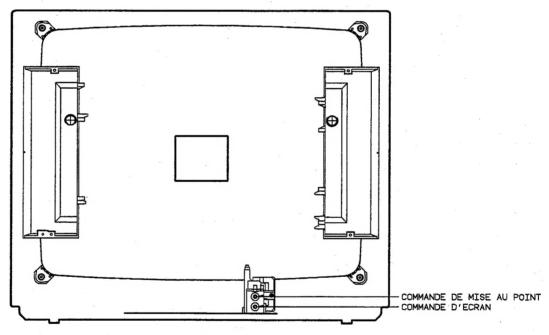
- Tourner entièrement vers la gauche la commande de lumière
- 2. Placer le commutateur de service à la position "SERVICE".
- Mesurer la haute tension à l'aide du multimètre approprié.
 La valeur nominale est de 28,0 (+1,0, -1,5) kV. Si la lecture est hors des tolérances, une réparation immédiate s'impose afin de prévenir toute panne prématurée.
- Il est essentiel d'utiliser le tube cathodique d'origine pour prévenir toute émission de rayons X.

ESSAI DU CIRCUIT DE FERMETURE

Cet essai doit être effectué comme vérification finale avant de rendre le téléviseur au client.

- 1. Recevoir une mire Philips.
- Appliquer -40 V c.c. à TPE7 et vérifier que le circuit de fermeture ne fonctionne pas.
- Appliquer -60 V c.c. à TPE7 et vérifier que le circuit de fermeture fonctionne.

EMPLACEMENT DES COMMANDES



TALON DE COULEUR (R606)

TALON DE CONTRASTE (R317)

TALON DE LUMINOSITE (R321)

CENTRAGE HORIZONTALE (R507)

STABILITE HORIZONTALE (R502)

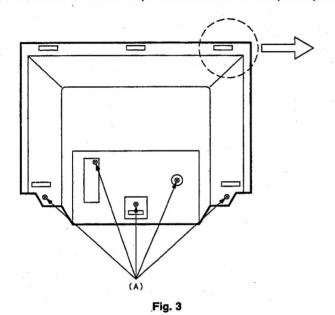
HAUTEUR VERTICALE (R405)

Fig. 2

SUGGESTIONS DE SERVICE

COMMENT RETIRER LE PANNEAU ARRIERE

- 1. Retirer les 5 vis (A), comme illustré Fig. 3.
- 2. Introduire un tournevis plat dans la fente de chaque dispositif de fixation et détacher les 5 dispositifs, comme illustré Fig. 4.



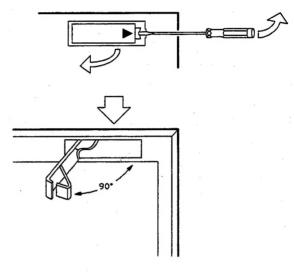


Fig. 4

COMMENT METTRE LE CHASSIS EN POSITION D'ENTRETIEN

- 1. Retirer les 3 vis (B), comme illustré Fig. 5.
- 2. Retirer la vis (C), comme illustré Fig. 6.
- 3. Tenir et soulever les languettes (D) du châssis, comme illustré Fig. 6, et tirer le châssis vers soi.

COMMENT DEPOSER LES ENCEINTES ACOUSTIQUES

- 1. Retirer les 2 vis (E) et les 2 crochets, comme illustré Fig. 6.
- 2. Tirer les enceintes acoustiques vers soi.

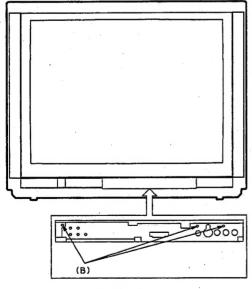


Fig. 5

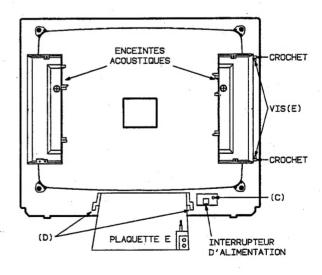


Fig. 6

POSITION D'ENTRETIEN DE LA PLAQUETTE B

- 1. Séparer le plaquette B de plaquette E.
- Connecter un fil prolongateur entre la plaquette B et la plaquette E, comme illustré Fig. 7.
 Nota: Un jeu de fils prolongateurs est fourni pour l'entretien et son numéro de pièce est TZS709006.

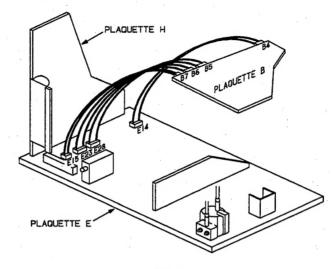


Fig. 7

REGLAGES

POINT / PREPARATION	PROCEDURE DE REGLAGE
TENSION B	
1. Faire fonctionner le récepteur de télévision. 2. Régler les commandes : Luminosité minimum Luminosité auxiliaire minimum	1. Vérifier que la tension aux points d'essai indiqués est telle que spécifiée. TPE1: 160 ± 2 V TPE5: 12.0 ± 1.0 V TPE2: 5.0 ± 0.5 V TPE10: 210 ± 10 V TPE3: 36.0 ± 2 V TPE34: 26.5 ± 1.5 V TPE4: 15.5 ± 1.0 V
RF AGC 1. Recevoir une mire Philips. 2. Régler le niveau d'entrée sur 60 ± 2 dB. (75 Ω ouverts) 3. Raccorder un oscilloscope à TPE9 avec mode c.c. HAUTE TENSION 1. Recevoir une mire quadrillée. 2. Régler les commandes : Luminosité	 Tourner la commande AGC RF (R135) à fond dans le sens des aiguilles d'une montre. Tourner lentement R135 dans le sens inverse des aiguilles d'une montre pour la régler au point juste avant que la tension en TPE9 tombe. Raccorder un voltmètre c.c. à TPE1 et vérifier que la tension est de 160 ± 2 V. Raccorder un indicateur de haute tension (type électrostatique) à une anode du tube - image.
CONTROLE AUTOMATIQUE DE FREQUENCE (CAF) 1. Mettre en marche le téléviseur. 2. Recevoir un signal SECAM en bande III. 3. Appliquer un signal continu de 38,9 MHz à TEP48. 4. Connecter un voltmètre digital à TPE22:	 Vérifier que la haute tension est dans une gamme de 28,0 (+1,0 , -1,5) kV. Régler L107 pour une tension de 5,6 ± 0,1 V à TPE22. Faire varier la fréquence (38,9 MHz) du générateur de ± 100 kHz et observer la tension du voltmètre digital : + 100 kHz inférieur à 3,5 V - 100 kHz supérieur à 7,0 V Recevoir un signal SECAM en bande I. Changer de 38,9 MHz vers 34,2 MHz. Régler C121 pour obtenir une tension de 5,6 ± 0,1 V à TPE22. Faire varier la fréquence (34,2 MHz) du générateur de ± 100 kHz et observer la tension du voltmètre digital : + 100 kHz inférieur à 3,5V. - 100 kHz supérieur à 7,0V.
CONTROLE AUTOMATIQUE DE PHASE 1. Appliquer une mire PAL de type Philips. 2. Position des réglages. Couleur	 Régler le contrôle automatique de phase C637 jusqu'à ce que les couleurs se stabilisent. Enlever la liaison vers la masse et s'assurer de la stabilité des couleurs. Régler L2201 et R2209 pour une amplitude sinusoïdale maximum. Changer le signal stéréo en signal multiplex connecter l'oscilloscope à TPE17.
SEPARATION DE CANAUX 1. Recevoir un signal stéréo avec 40% de modulation à 1 kHz pour le canal droit et 0% de modulation pour le canal gauche. 2. Connecter un oscilloscope à TPE14.	Régler L2201 et R2210 pour une amplitude sinusoïdale maximum. Régler R2224 pour une amplitude minimum à TPE14.
 Appliquer une mire SECAM de type Philips. Connecter un oscilloscope à TPE68. Masse TPE76. Ponter TPE73 et TPE5. 	Régler L607 pour une amplitude maximum à TPE68. Oter les pontages et vérifier la stabilité des couleurs.

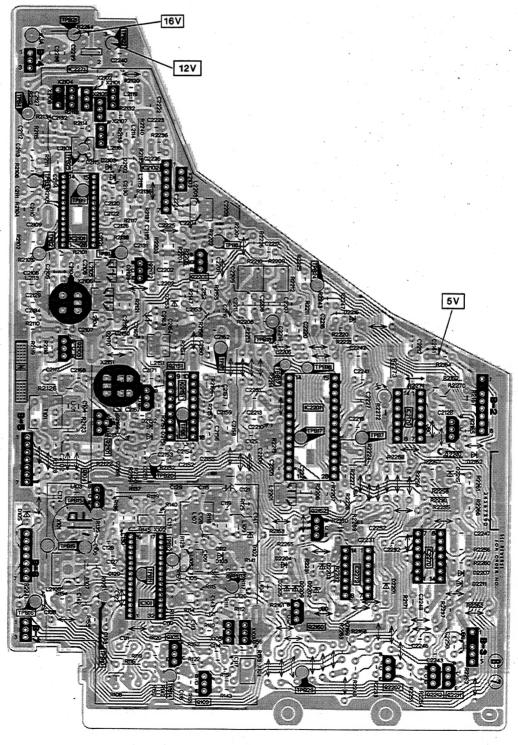
POINT / PREPARATION	PROCEDURE DE REGLAGE	FORMES D'ONDE
REGLAGE DE BASE CONTRASTE		
1. Appliquer une mire UHF SECAM de type Philips. 2. Réglage des contrôles : Lumière	 Régler le talon de lumière (R321) pour obtenir signal Fig. 8. Régler le talon de Contraste auxiliaire (R317) pour obtenir 3,0 V crêtes du niveau. 	3.0Ve.
Brancher un oscilloscope à TPE15. Masse TPE7.		Fig. 8
REGLAGE DE BASE COULEURS		_
Appliquer une mire UHF SECAM de type Philips. Réglage des contrôles : Lumière minimum Contraste maximum Couleur auxiliaire centre Connecter un voltmètre digital a TPE21. Brancher l'oscilloscope à TPE15 en mode continu.	 Régler le potentiomètre couleur pour une tension de 5,3 V à TPE21. Connecter une résistance de 100 Ω entre TPE6 et la masse. Régler le potentiomètre couleur auxiliaire (R606) pour une tension de 2,0 V crêtes du niveau à TPE15. Oter le pontage de TPE8. 	2.0Ve.
REGLAGE DE LA LIGNE A RETARD 1. Recevoir un signal PAL avec une mire type Philips. 2. Mettre TPE6 vers la masse. 3. Brancher l'oscilloscope à TPE15 en mode continu.	Régler la ligne à retard R609 et le bobinage L603 pour obtenir à TPE15 la forme d'onde de la Fig. 10.	MINIMISER LA DIFFERENCE (AVEC L603) MINIMISER LA DIFFERENCE (AVEC R609) Fig. 10
FILTRE DE CLOCHE (SECAM) 1. Appliquer une mire de barre couleur SECAM. 2. Branche l'oscilloscope à TPE69.	Régler L609 afin d'obtenir la forme d'onde indiquée sur la Fig. 11.	NON BON NON Fig. 11
REGLAGE DU DISCRIMINATEUR SECAM 1. Appliquer une mire de type Philips (SECAM). 2. Branche l'oscilloscope à TPE71.	 Régler L606 A, B et C sont de même niveau (Fig. 12). Brancher l'oscilloscope à TPE70. Régler L605 D et E chevauchent (Fig. 13). Brancher l'oscilloscope à TPE71. Confirmer si A-C est une ligne droite. 	Fig. 12
		Fig. 13

mémorandum

VUES DU CONDUCTEUR

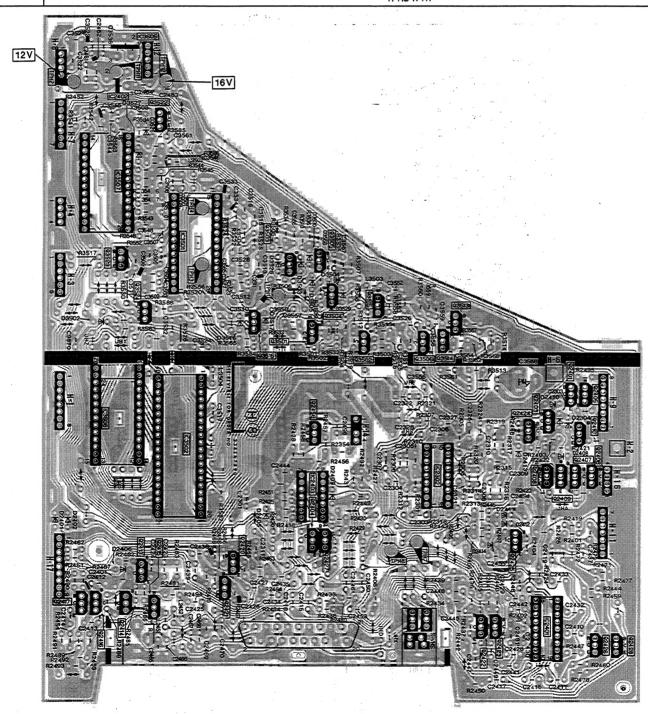
PLAQUETTE B TNP107201AH

I.C.	IC2271 IC2101	IC2102 IC2151	IC2201	IC2 70 C2272 IC2270
TRANSISTOR	Q2103 Q2101 Q104	Q2201 Q2151 Q105 Q103	Q2152 Q2160	02210 02207
DIODE		D2153 D2152 D103 D2151	D102 D2204 D2203 D2205 D2205 D2205 D2202	216 D2215 D2201 D2207 D2211
TEST POINT	TPB4 TPB21 TPB22 TPB3 TPB9 TPB TPB2 TPB15 TPB16 TPB19 TPB10	TPB8 TPB20 TPB6 TPB11 TPB12 TPB	TPB24 TPB17 TPB18	TPB7



PLAQUETTE H TNP107481

I.C.				IC2403		IC2302		IC2401
TRANSISTOR	Q24170		02420 02421	02456 0240402427			Q2422Q242	02401 02405 12424 02403 0241 0 0240802407 02409 02406 3 0242602428
DIODE	D2402 D2401	D2406	D240	D2409			D241	D2410 I D2304 D2408
TEST POINT	·				TPH8 TPI	H7		F T



SOE I C 6 0 2 TDA3505 BLK R327 R508 ≸ T 6327 R616 100 D321 HA165]R507© 50k8 (15) ¥ R344 100k A SYNC PROCESSOR NOISE INV. PHASE DET. S301 EVORNAL 13 MORMAL SERVICE D314 MA4033M R405 V. HEIGHT LOCK DIAGRAM for IC501 SYNC. PULSE NOISE LEVEL DETECTOR

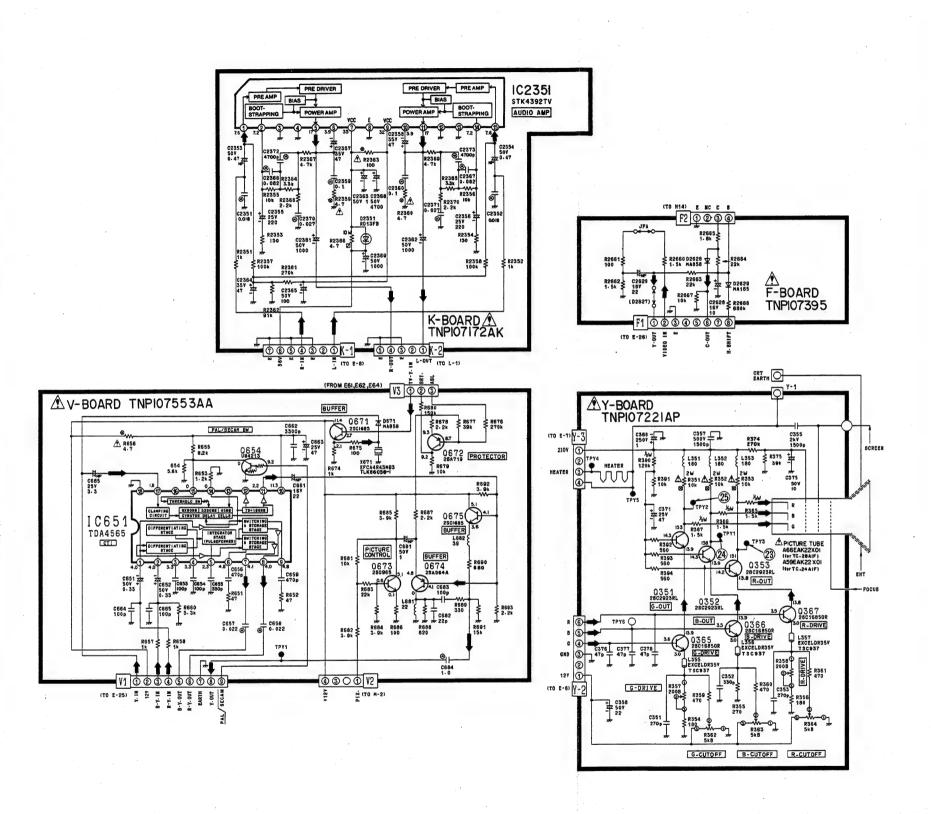
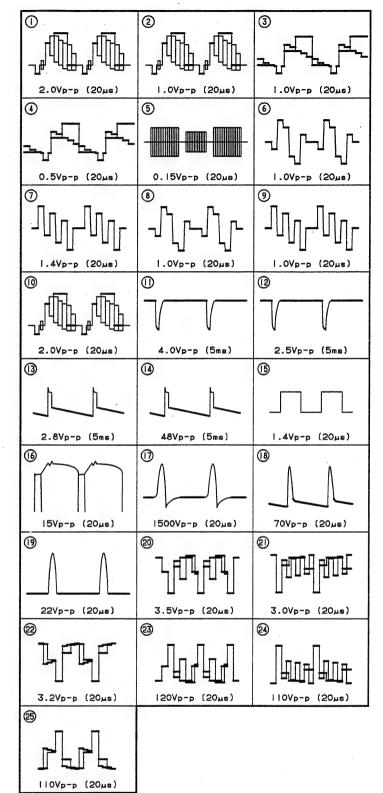
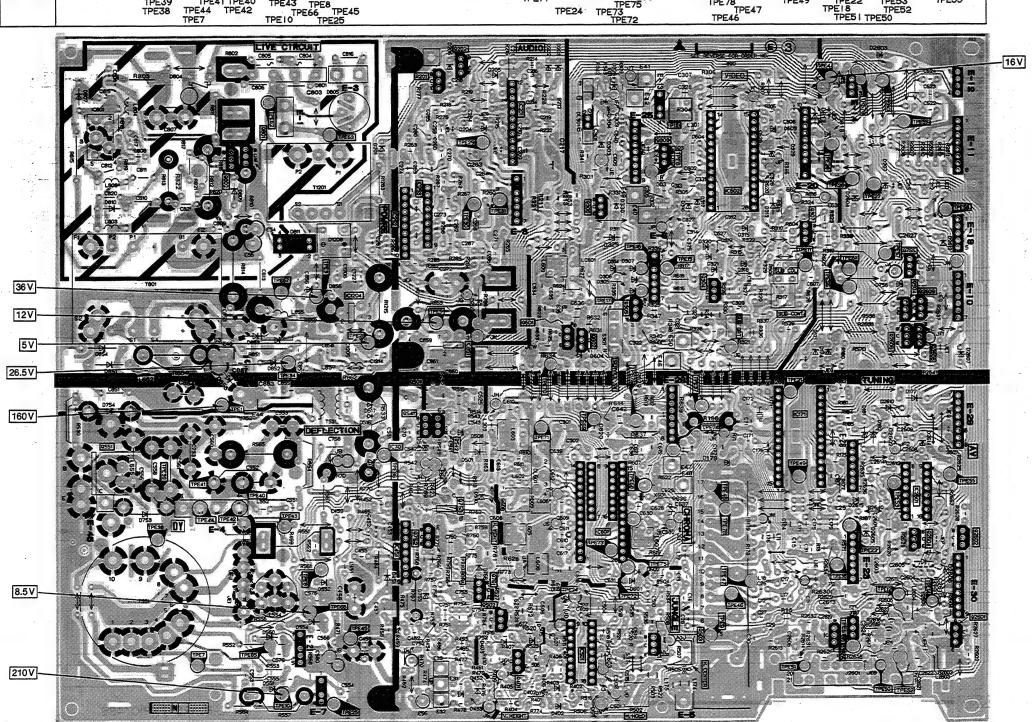


TABLEAU DE MIRES DE FORMES D'ONDES

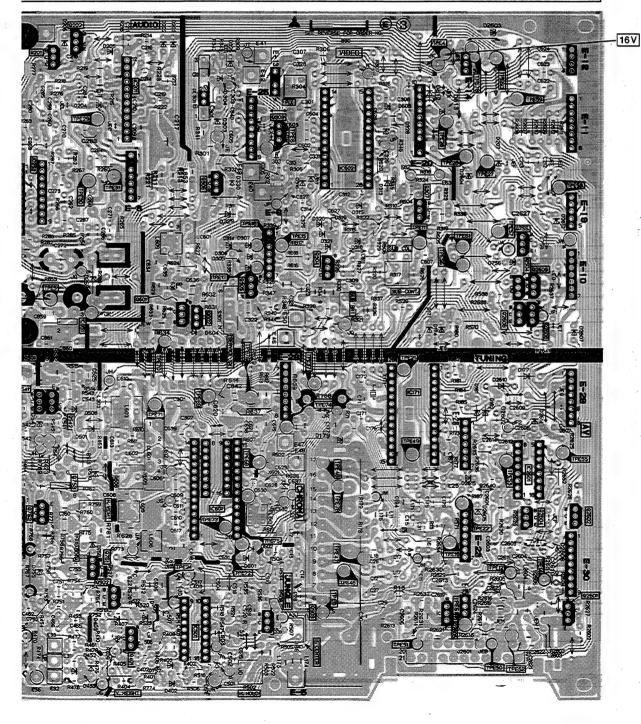


I.C.	IC801	IC1204 IC70	IC451 IC851 IC20	IC601 IC501	IC602	IC171 IC2601
TRANSISTOR	Q55 I	08020801	02010202 0501 05410542 0753 0751 0752 0502	0306 0601 0602 01 0503	Q304	Q504 Q2606 Q2608 Q2604 Q2602 Q2605 Q2601
DIODE	D810 D854 D851 D754 D753	D804 D801 D805 D2 D809 D811 D1208 D855 D853D852 D552 D4	D206 D205 D204 D508 D541 D501 D541 D510	D202 D203 D303 D330 D329 D604 D314D307 D306 D305 D505 D757 D511	D320 D603 D328 D319 D313 D321 D179	D812 D2603 D813 D2612 D171D174 D2610D177 D2607 D181D182 D2614 D2615 D2605
TEST POINT	TPE3		TPE29 TPE30TPE31 TPE5	TPE6 TPE16TPE15 TPE70 TPE67 TPE71 TPE69 TPE68 TPE75 TPE24 TPE73 TPE72	TPF48 TPE2	TPE4 TPE78TPE60 TPE28TPE26TPE27TPE59 TPE58 TPE11 TPE61 TPE57 21 TPE56 E49 TPE22 TPE53 TPE55 TPE18 TPE52 TPE51 TPE50

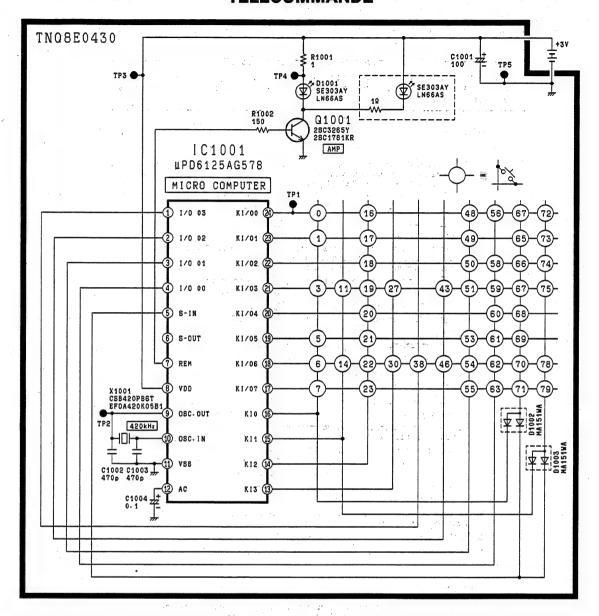


E TNP197019AV pour TC-28A1F TNP197019BH pour TC-24A1F

IC851	IC201	IC60 IC50	IC602		IC171	IC2601	
Q201Q20 Q501 Q541Q542		Q306 Q60 I Q602	Q 3 04			Q504 Q2606 Q260)8
Q753 Q752	Q75 Q502 Q40	Q503			Q2605	02604	Q2602 Q2601
D206 D50 D541 D755	D205 D204 08 D501 D510	D202 D203 D303 D330 D329 D314D307 D306 D305 D305 D511	D320 D319 .D321 D179	D603 D328 D313	D26	D2610D177 81D182 D261	02612 D2607 4
TPE5	TPE29 PE30TPE31	TPE6 TPE16TPE18 TPE17 TPE70 TPE69 TPE68 TPE71 TPE69 TPE68 TPE24 TPE73 TPE24 TPE72	TPE48 TPE78 TPE TPE46		TPE28TPE: TPE11 TPE6 E21 TPE5 PE49 TPE2 TPE18	6	TPE58



TELECOMMANDE



KEY FUNCTION TABLE

KEY NO-	CUSTOM CODE	DATA	FUNCTION		KEY NO.	CUSTOM CODE	DATA CODE	FUNCTION
0	02	02	REW		30	00	14	5
1	02	08	REC		38	00	20	POWER (TV)
3	00	24	-/		43	00	12	3
5	02	03	FF		46	00	22	CH. UP (TV)
6	00	OD	VOL		48	02	00	STOP
7	02	OA	PLAY		49	02	23	CH. DN (VTR)
11	00	21	C		50	02	22	CH- UP (VTR)
14	00	19	0		51	00	15	6
16	00	38	8/P		53	02	00	FLAME ADV
17	00	26	RECALL		54	00	23	CH- DN (TV)
18	00	07	NORMAL		55	02	06	PAUSE
19	D 0.	16	7 .		56	00	1C	TONE -
20	0.0	33	AMBIENCE		58	02	20	POWER (VTR)
21	00	03	1/11		59	00	18	9
22	00	17	8		60	00	1D	BASS -
23	00	32	SP/MU		61	00	2F	BASS +
27	0.0	47	4	1	60	00	0.4	VOI 4

KEY No.	CUSTOM CODE	DATA	FUNCTION
63	00	27	TONE +
64	00	2E	CONTRAST -
65	00	0E	COLOUR -
66	00	1D	COLOUR +
67	00	0B	MUTE
68	00	OF	BRIGHT -
69	00	. 06	BRIGHT +
70	00	2A	TV/AV
71	00	28	CONTRAST +
-72	00	04	BALANCE L
73	00	20	FINE -
74	00	2B	FINE +
75	00	10	1
78	00	11	2
79	00	05	BALANCE R

CUSTOM CODE 00 = TV

SCHEMA - TECHNIQUE POUR MODELE TC - 24A1F / 28A1F (ALPHA-2W CHASSIS)

Remarque importante pour la sécurité

Les éléments portant la marque A possèdent des caractéristiques de sécurité spéciales. Lors du remplacement de l'une quelconque de ces pièces, n'utiliser que celles

Nota:

1. RESISTANCE

Toutes les résistances sont des résistances au carbone 1/4W, sauf indication contraire par les marques suivantes: L'unité de résistance est l'OHM [Ω] (k = 1.000, M = 1.000.000).

O : Ininflammable

☑ : Oxyde métallique O : Film métallique

△ : Solide 🛛 : Bobiné

⊗ : Fusible

2. CONDENSATEUR

Toutes les condensateurs sont des condensateurs céramique 50V, sauf indi-

cation contraire par les marques suivantes: L'unité de capacité est le $\mu F,$ sauf indication contraire.

⊗ : Compensation de température + ∃ : Electrolytique (M) : Polyester m : Polyester métallisé

Tantale trempé

🛛 : Polypropylène

②: Type Z

3. BOBINE

L'unité d'inductance est le µH, sauf indication contraire.

4. POINT D'ESSAI

O : Position du point d'essai

5. SYMBOLE DE TERRE

: Terre du châssis (froid) : Terre de ligne (chaud)

6. MESURE DE TENSION

La tension est mesurée avec un voltmètre c.c. Les conditions de mesure sont les suivantes :

Source d'alimentation...

. CA 220 V. 50 Hz Signal de réception ...

Signal barre couleur (RF) Toutes les commandes utilisateur Position maximum

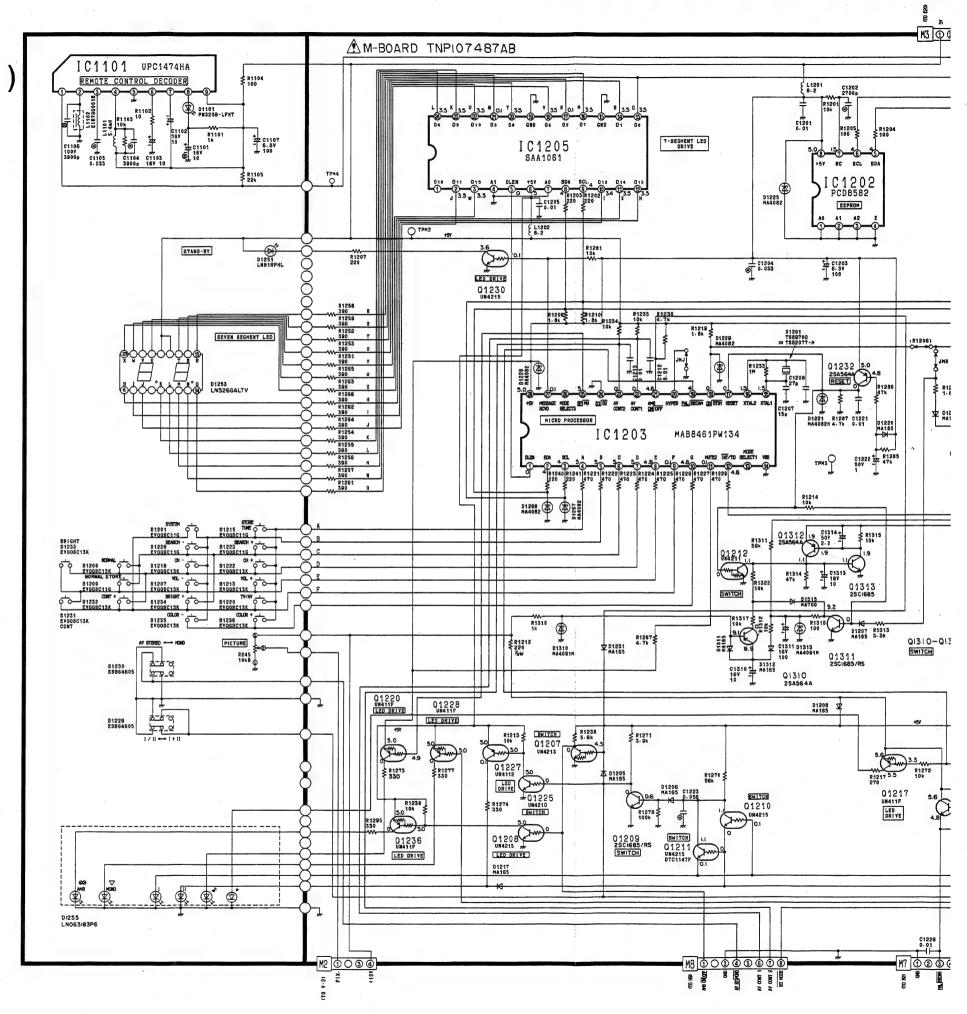
- 7. Le numéro dans le cercle rouge indique le numéro de la forme d'onde. (Voir le tableau de mires de formes d'ondes.)
- Lorsque la flèche () est repérée, la connexion est facilement trouvée, il suffit de suivre la direction de la flèche.
- 9. indique le sens du signal principal.
- 10. Ce schéma est à jour au moment de l'impression et est modifiable sans pré-

Remarque:

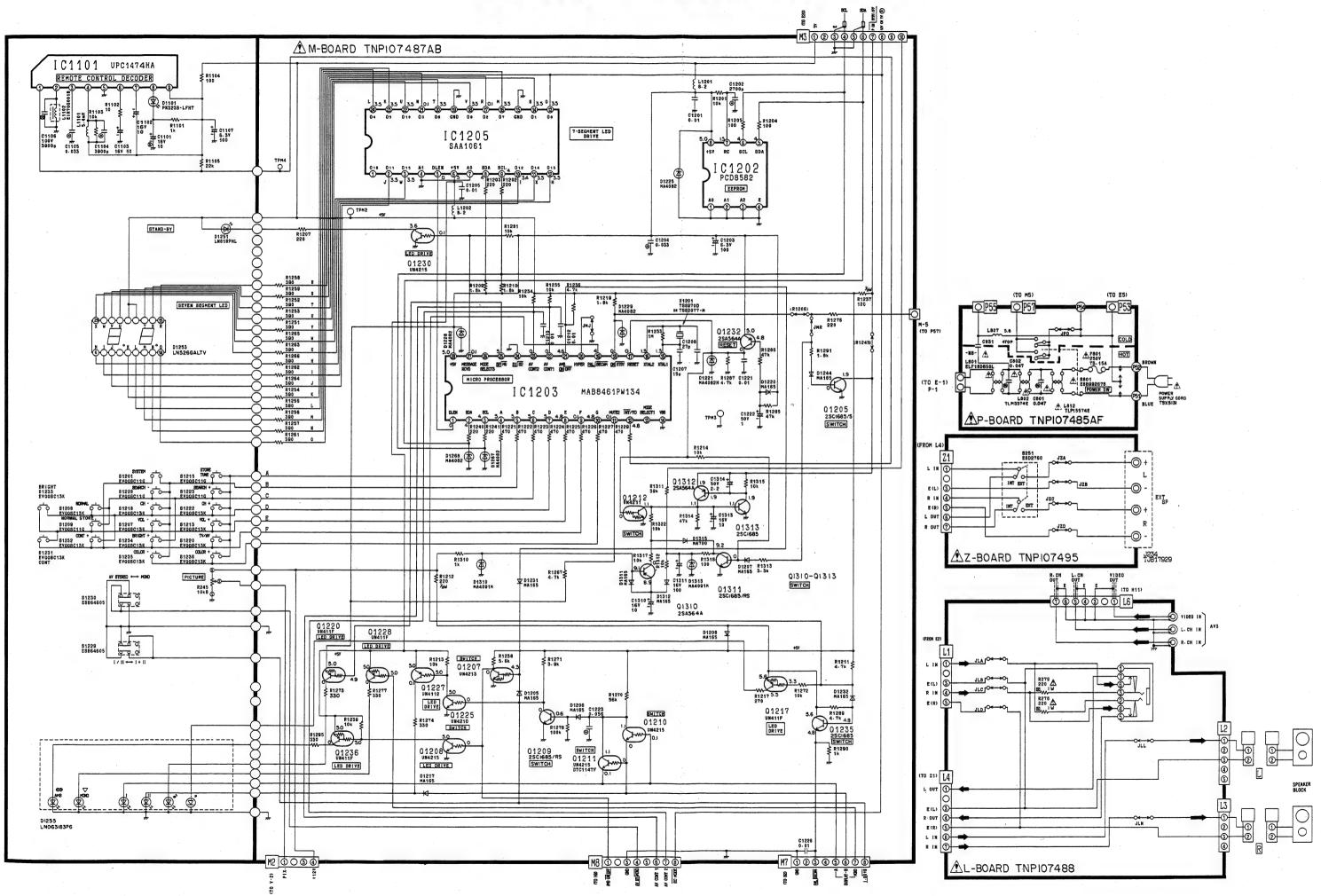
Le circuit d'alimentation contient une zone de circuit qui utilise une alimentation séparée pour isoler la connexion à la terre. Le circuit est défini par les indications chaud (HOT) et froid (COLD) dans le diagramme schématique. Prendre les précautions suivantes. Tous les circuits, sauf le circuit d'alimentation, sont

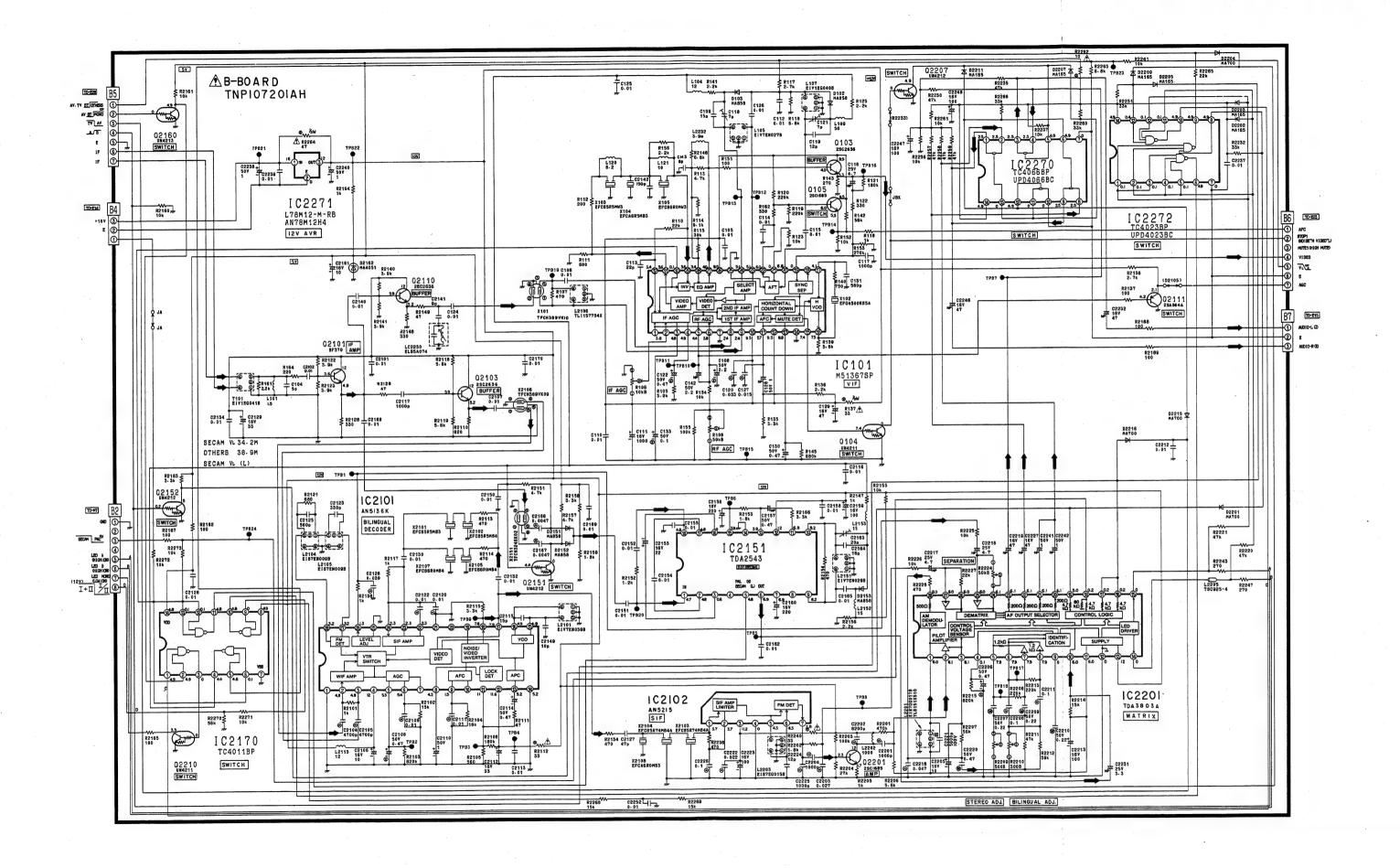
Précautions

- Ne pas toucher la partie chaude ou en même temps les parties chaude et froides. Cela présente un risque de décharge électrique.
- 2. Ne pas court circuiter les circuits chaud et froids car un fusible peut sauter et des pièces se casser.
- 3. Ne pas raccorder un instrument, comme un oscilloscope, simultanément aux circuits chaud et froids car un fusible peut sauter. Raccorder la terre des instruments à la connexion de terre du circuit mesuré.
- 4. Toujours débrancher la fiche d'alimentation avant de déposer le châssis.

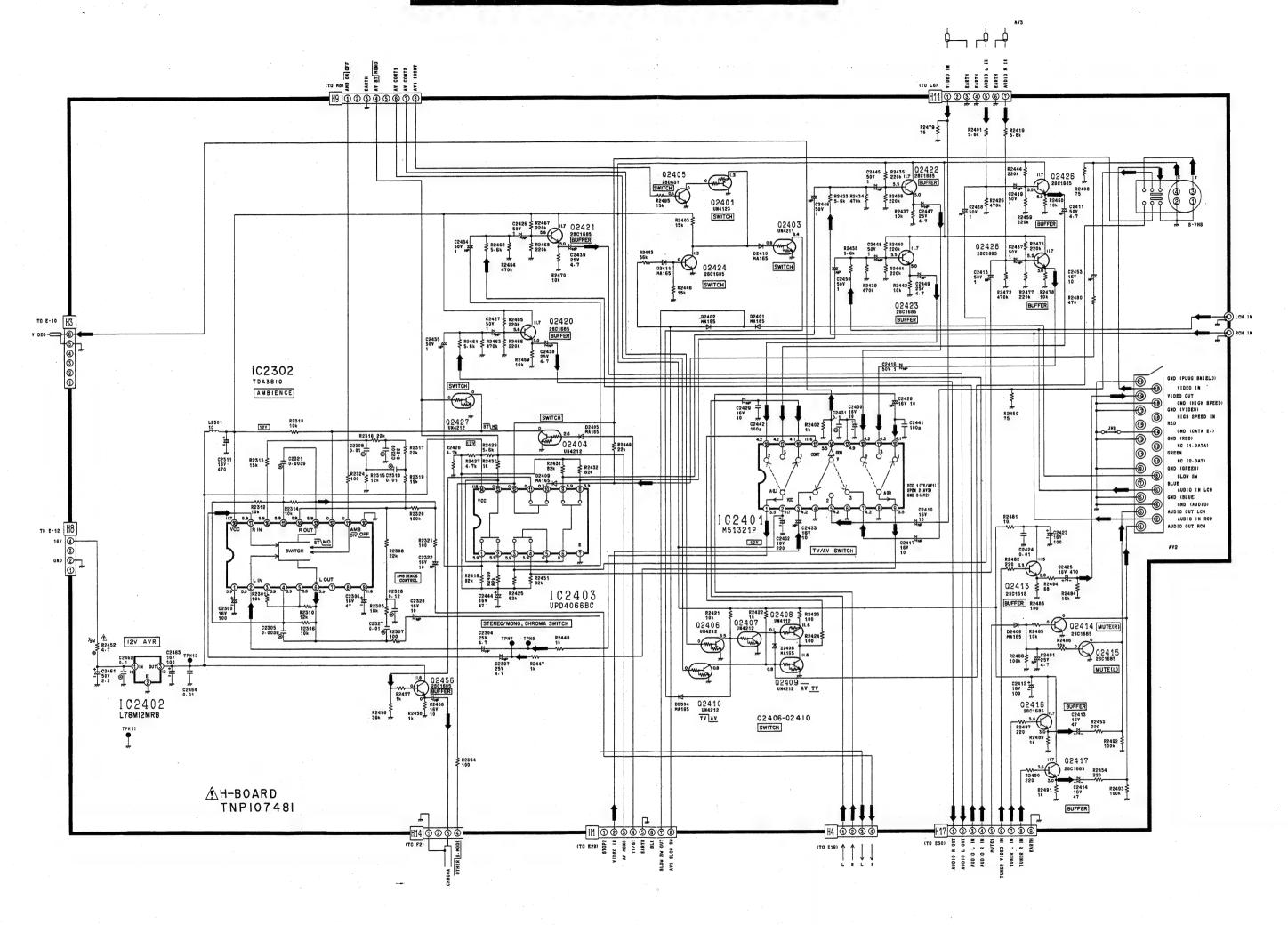


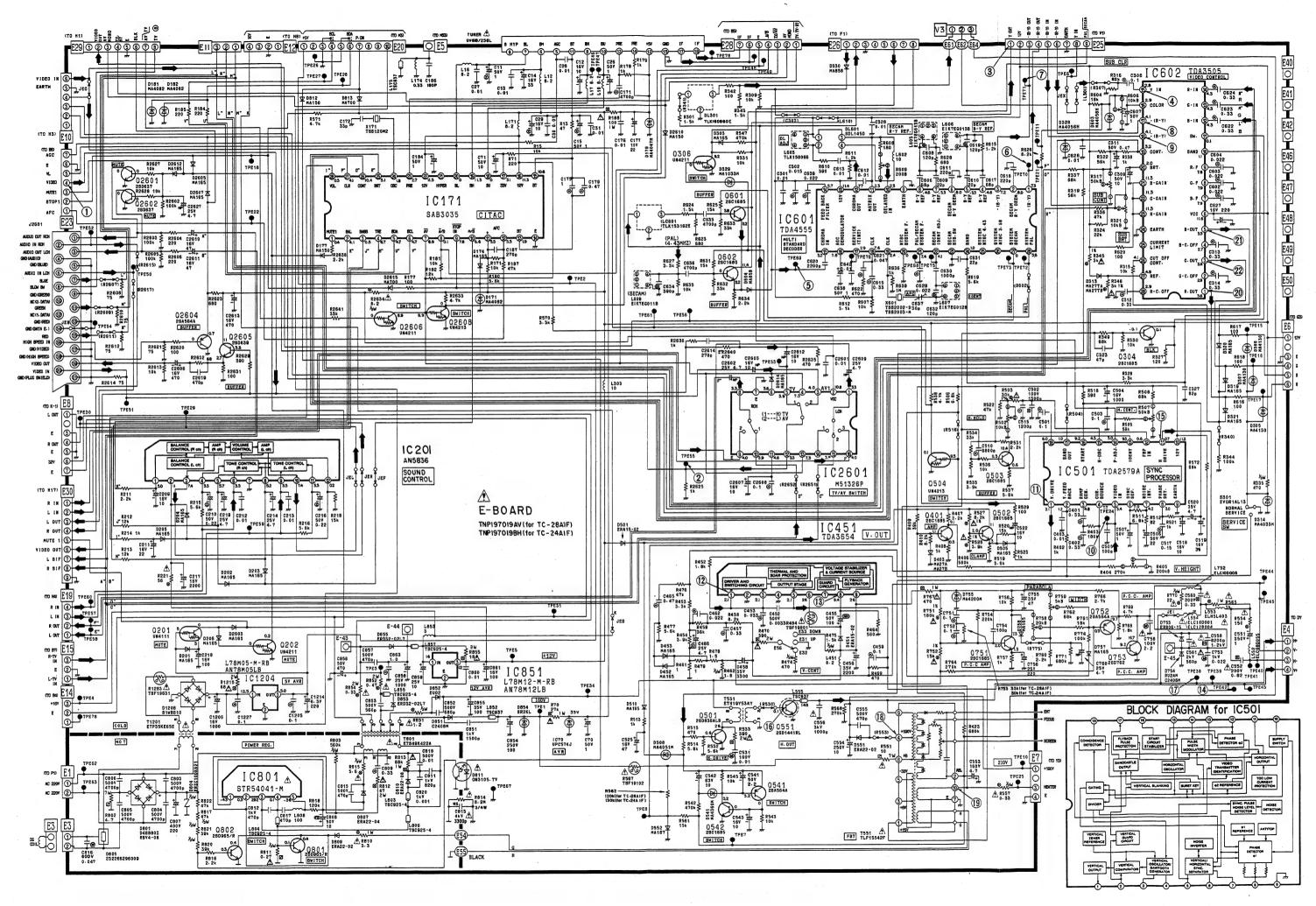
TC-24A1F/28A1F TC-24A1F/28A1F





TC-24A1F/28A1F TC-24A1F/28A1F





SOE I C 6 0 2 TDA3505 BLK 8327 5 120 m P507 0 50kB 15 A SYNC PROCESSOR NOISE INV. PHASE DET. EARTH NORMAL O SERVICE D314 R405 V. HEIGHT OCK DIAGRAM for IC501

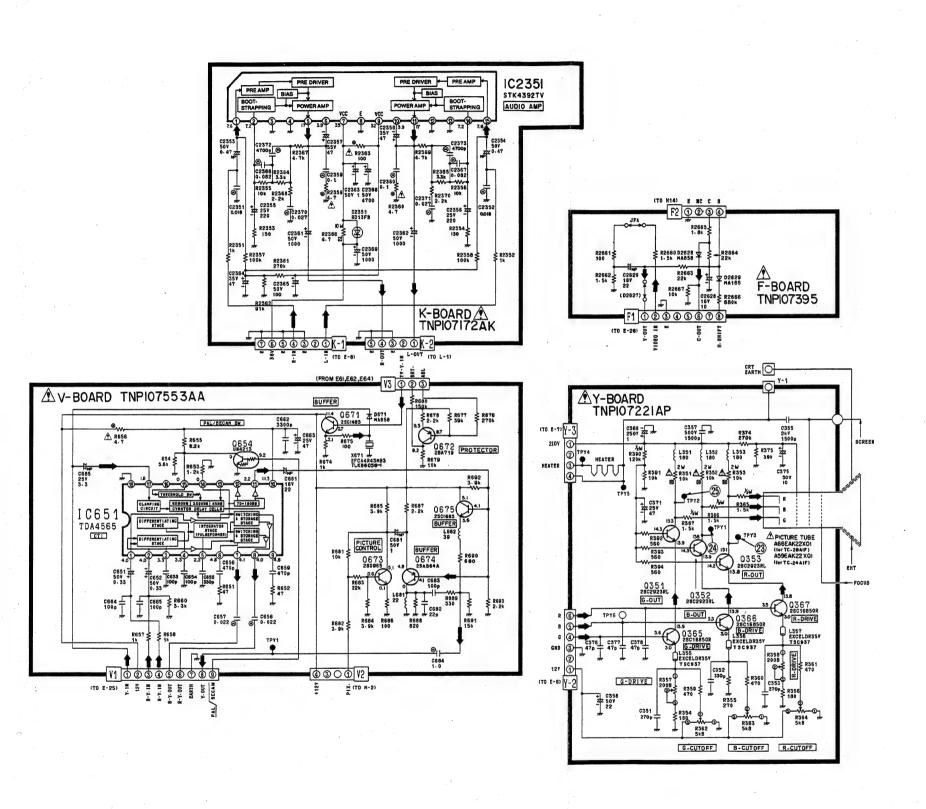
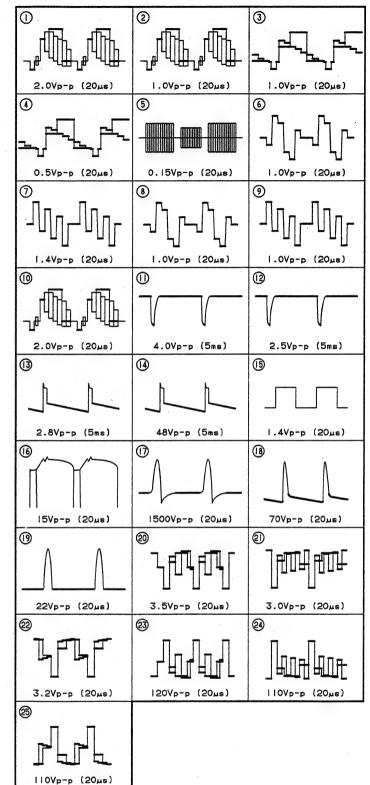


TABLEAU DE MIRES DE FORMES D'ONDES



LISTE DES PIÈCES DE RECHANGE

Remarque importante pour la sécurité

Les éléments portant la marque Δ possèdent des caractéristiques de sécurité spéciales. Lors du remplacement de l'une quelconque de ces pièces, n'utiliser que celles spécifiées par la fabricant.

Ref. No.	Part No.	Description	
	MISCELLANEO	OUS COMPONENTS	
1	A59EAK22X01	PICTURE TUBE for TC-24A1F	<u> </u>
	A66EAK22X01	PICTURE TUBE for TC-28A1F	1
2	EAB1064LF	SPEAKER (LEFT)	
3	EAB1064RF	SPEAKER (RIGHT)	
	ERC12GJ825	RESISTOR for EARTH SPRING	
	- ERD25TJ105	RESISTOR (Carbon 1MΩ)	
	F9-4-220	HEAT SINK for TRANSISTOR	
4	TBL61319	SET FOOT	
5	TBM120885	LABEL	
6 .	TBM120911	MODEL NAME PLATE for TC-28A1F	
	TBM120921	MODEL NAME PLATE for TC-24A1F	
7	TBM153010	Panasonic BADGE	
8	TBM179014	BLIND SHEET (AERIAL COVER)	
9	TBM8E1002-1	AV LABEL for TC-28A1F	
10	TBX2880900	POWER BUTTON	
	TBX3783600	STEREO-MONO BUTTON	
11	TEK13321	DAMPER	***************************************
	TEK13321-A	LID SWITCH	
12	TEK17918	DOOR SWITCH	
13	TES2259	POWER BUTTON SPRING	
14	THN8E001	CRT NUT	-
16	TKP1757521	SPEAKER NET for TC-28A1F	
	TKP1757541	SPEAKER NET for TC-24A1F	
17	TKP1811071	SMOKED PANEL	
18	TKP1811081	PANEL (LEFT) for TC-28A1F	
19	TKP1811091	DOOR	
20	TKP1811142	PANEL (RIGHT) for TC-28A1F	
21	TKU581301	REAR COVER for TC-28A1F	Δ
	TKU581601	REAR COVER for TC-24A1F	Δ
22	TKY182200	CABINET for TC-28A1F	Δ
	TKY182500	CABINET for TC-24A1F	Δ
23	TMW27175-1	CONTROL BRACKET	
	TNP107172AK	K-BOARD	Δ
	TNP107201AH	B-BOARD	Δ
	TNP107221AP	Y-BOARD	Δ
	TNP107395	F-BOARD	Δ
	TNP107481	H-BOARD	Δ
	TNP107485AF	P-BOARD	Δ
	TNP107487AB	M-BOARD	Δ
	TNP107488	L-BOARD	$\overline{\Delta}$
_	TNP107495	Z-BOARD	$\overline{\Delta}$
	TNP107553AA	V-BOARD	Δ
	TNP197019AV	E-BOARD for TC-28A1F	$\overline{\Delta}$
	TNP197019BH	E-BOARD for TC-24A1F	$\frac{\Delta}{\Delta}$
24	TNQ8E0430	REMOTE CONTROLLER	
	TPC1853004	OUTER CARTON for TC-28A1F	
	TPC1853704	OUTER CARTON for TC-24A1F	
	TPD191498	CUSHION for TC-24A1F	
	TPD192500	CUSHION for TC-24A1F	
	TPD8E514	CUSHION for TC-28A1F	
	TPD8E515	CUSHION for TC-28A1F	
	TQB8E0471	INSTRUCTION BOOK for TC-28A1F	Δ
	TQB8E0479	INSTRUCTION BOOK for TC-24A1F	<u> </u>
25	TSX5131	POWER SUPPLY CORD	<u> </u>
	UM-4NEPE-2S		
26	UV618/256L	BATTERY	
20	138-94350	TUNER	
	462200102751	CARACITOR	
~	702200 1027 51	CAPACITOR	

Ref. No.	Part No.		De	scrip	tion	
	RESISTORS	<u></u>				
R13	ERD25TJ470	Carbon	47Ω	5%	0.25W	
R15	ERD25TJ103	Carbon	10kΩ	5%		
R70	ERG1ANJ273	Metal	27kΩ	5%		Δ
R71	ERD25TJ221	Carbon	2200	5%		
R105	ERD25TJ392	Carbon	3.9kΩ	5%		
R106	EVND1AA00B14	IF AGC				
R107	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R108	EVND1AA00B54	RF AGC				
R110	ERD25TJ223	Carbon	22kΩ	5%	0.25W	
R111	ERD25TJ681	Carbon	680Ω	5%	0.25W	
R112	ERD25TJ201	Carbon	200Ω	5%	0.25W	
R113	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W	
R114	ERD25TJ912	Carbon	9.1kΩ	5%	0.25W	
R115	ERD25TJ303	Carbon	30kΩ	5%	0.25W	
R116	ERD25TJ102	Carbon	1kQ	5%	0.25W	
R117	ERD25TJ272	Carbon	2.7kΩ	5%	0.25W	
R118	ERD25TJ682	Carbon	6.8kΩ	5%	0.25W	
R119	ERD25TJ224	Carbon	220kΩ	5%	0.25W	
R120	ERD25TJ224	Carbon	220kΩ	5%	0.25W	***************************************
R121	ERD25TJ184	Carbon	180kΩ	5%	0.25W	
R122	ERD25TJ331	Carbon	330Ω	5%	0.25W	
R123	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R125	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R135	ERD25TJ332	Carbon	3.3kΩ	5%	0.25W	
R136	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R137	ERQ12HJ330	Film	33Ω	5%	0.5W	Δ
R139	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W	
R140	ERD25TJ751	Carbon	750Ω	5%	0.25W	
R141	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R142	ERD25TJ563	Carbon	56kΩ	5%	0.25W	
R143	ERD25TJ271	Carbon	270Ω	5%	0.25W	
R145	ERD25TJ684	Carbon	680kΩ	5%	0.25W	
R151	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R152	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R153	ERD25TJ274	Carbon	270kΩ	5%	0.25W	
R154	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R155	ERD25TJ104	Carbon	100kΩ	5%	0.25W	
R156	ERD25TJ222	Carbon	2.2kQ	5%	0.25W	_
R161	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R162	ERD25TJ331	Carbon	330Ω	5%	0.25W	
R164	ERD25TJ221	Carbon	220Ω	5%	0.25W	
R171	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R177	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R178	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R179	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R180	ERD25TJ562	Carbon	·5.6kΩ	5%	0.25W	
R181	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R182	ERD25TJ123	Carbon	12kΩ	5%	0.25W	
R184	ERD25TJ221	Carbon	220Ω	5%	0.25W	
R185	ERD25TJ221	Carbon	220Ω	5%	0.25W	
R187	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R188	ERG1SJ101	Metal	100Ω	5%	1W	
R211	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R212	ERD25TJ123	Carbon	12kΩ	5%	0.25W	
R213	ERD25TJ123	Carbon	12kΩ	5%	0.25W	
R214	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R215	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W	
R216	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W	
R218	ERD25TJ153	Carbon	15kΩ	5%	0.25W	

Ref. No.	Part No.	Description						
R221	ERQ14AJ560	Film	Δ					
R245	EVUF3AM20B14	PICTURE	10kΩB					
R278	ERG1ANJ221	Metal	220Ω	5%	1W	Δ		
R279	ERG1ANJ221	Metal	220Ω	5%	1W			
R301	ERD25TJ152	Carbon	1.5kΩ	5%	0.25W			
R309	ERD25TJ103	Carbon	10kΩ	5%	0.25W			
R315	ERD25TJ103	Carbon	10kΩ	5%	0.25W			
R316	ERD25TJ823	Carbon	82kΩ	5%	0.25W			
R317	EVND4AA00B54	SUB CONT						
R319	ERD25TJ563	Carbon	56kΩ	5%	0.25W	·		
R321	EVND4AA00B14	SUB BRIG						
R322	ERD25TJ563	Carbon	56kΩ	5%	0.25W			
R324	ERD25TJ223	Carbon	22kΩ	5%	0.25W			
R327	ERD25TJ121	Carbon	120Ω	5%	0.25W			
R328	ERD25TJ332	Carbon	3.3kΩ	5%	0.25W			
R330	ERD25TJ103	Carbon	10kΩ	5%	0.25W			
R331 R335	ERD25TJ103 ERDS1TJ471	Carbon	10kΩ 470Ω	5% 5%	0.25W 0.5W			
R336	ERD25TJ473	Carbon	47kΩ	5%	0.25W			
R337	ERD25TJ683	Carbon	68kΩ	5%	0.25W			
R338	ERD25TJ102	Carbon	1kΩ	5%	0.25W			
R342	ERD25TJ102	Carbon	100Ω	5%	0.25W			
R343	ERD25TJ152	Carbon	1.5kΩ	5%	0.25W			
R344	ERD25TJ104	Carbon	1.00kΩ	5%	0.25W			
R345	ERO25CKF3001	Metal	3.00kΩ	1%	0.25W	4		
R346	ERO25CKF3001	Metal	3.00kΩ	1%	0.25W			
R349	ERD25TJ683	Carbon	68kΩ	5%	0.25W			
R351	ERG2ANJ103	Metal	10k	5%	2W	Δ		
R352	ERG2ANJ103	Metal	10k	5%	2W			
R353	ERG2ANJ103	Metal	10k	5%	2W	1		
R354	ERD25TJ181	Carbon	180Ω	5%	0.25W			
R355	ERD25TJ271	Carbon	270Ω	5%	0.25W			
R356	ERD25TJ181	Carbon	180Ω	5%	0.25W			
R357	EVN65UA00B22	G-DRIVE 2	200ΩB		-	**********		
R358	EVN65UA00B22	R-DRIVE 2						
R359	ERD25TJ471	Carbon	470Ω	5%	0.25W			
R360	ERD25TJ471	Carbon	470Ω	5%	0.25W			
R361	ERD25TJ471	Carbon	470Ω	5%	0.25W			
R362	EVN65UA00B53	G-CUTOFF	5kΩΒ	-				
R363	EVN65UA00B53	B-CUTOFF	5kΩΒ					
R364	EVN65UA00B53	R-CUTOFF	5kΩB		the state			
R365	ERDS1TJ152	Carbon	1.5kΩ	5%	0.5W			
R366	ERDS1TJ152	Carbon	1.5kΩ	5%	0.5W			
R367	ERDS1TJ152	Carbon	1.5kΩ	5%	0.5W			
R374	ERD25TJ274	Carbon	270kΩ	5%	0.25W			
R375	ERD25TJ393	Carbon	39kΩ	5%	0.25W			
R390	ERDS1TJ124	Carbon	120kΩ	5%	0.5W			
R391	ERD25TJ103	Carbon	10kΩ	5%	0.25W			
R392	ERD25TJ561	Carbon	560Ω	5%	0.25W			
R393	ERD25TJ561	Carbon	560Ω	5%	0.25W			
R394	ERD25TJ561	Carbon	560Ω	5%	0.25W			
R402	ERD25TJ102	Carbon	1kΩ	5%	0.25W			
R403	ERD25TJ184	Carbon	180kΩ	5%	0.25W			
R404	ERD25TJ274	Carbon	270kΩ	5%	0.25W			
R405	EVND4AA00B25	V. HEIGHT	200kΩB					
R406	ERD25TJ564	Carbon	560kΩ	5%	0.25W			
R407	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W			
R408	ERD25TJ102	Carbon	1kΩ	5%	0.25W			
R409	ERD25TJ393	Carbon	39kΩ	5%	0.25W			
R410	ERD25TJ822	Carbon	8.2kΩ	5%	0.25W			
R423	ERD25TJ684	Carbon	680kΩ	5%	0.25W			
R452	ERD25TJ182	Carbon	1.8kΩ	5%	0.25W			
R453	ERD25TJ332	Carbon	3.3kQ	5%	0.25W			
R454	ERD25TJ392	Carbon	3.9kΩ	5%	0.25W			
R458	ERD25TJ822	Carbon	8.2kΩ	5%	0.25W			
R459	ERD25TJ363	Carbon	36kΩ	5%	0.25W			
R461	ERD25TJ1R0	Carbon	1Ω	5%	0.25W			
R462	ERDS1TJ1R8	Carbon	1.8Ω	5%	0.5W			
R463	ERD25TJ223	Carbon	22kΩ	5%	0.25W			
R464	ERD25TJ561	Carbon	560Ω	5%	0.25W			
R469	ERD25TJ471	Carbon	470Ω	5%.	0.25W			

Ref. No.	Part No.	Description
R474	ERDS1TJ471	Carbon 470Ω 5% 0.5W
R475	ERDS1TJ152	Carbon 1.5kΩ 5% 0.5W
R476	ERD25TJ473	Carbon 47kΩ 5% 0.25W
R477	ERD25TJ562	Carbon 5.6kΩ 5% 0.25W
R478	ERD25TJ1R5	Carbon 1.5Ω 5% 0.25W
R479	ERD25TJ1R0	Carbon 1Ω 5% 0.25W Fusable Link
R484 R502	TSF19801 EVND4AA00B14	Fusable Link Δ H. HOLD 10kΩB
R503	ERO25CKF3002	Metal 30.0kΩ 1% 0.25W Δ
R505	ERD25TJ563	Carbon 56kQ 5% 0.25W
R506	ERD25TJ682	Carbon 6.8kQ 5% 0.25W
R507	EVND4AA00B54	H. CENTRE 50KQB
R508	ERD25TJ683	Carbon 68kΩ 5% 0.25W
R511	ERD25TJ682	Carbon 6.8kΩ 5% 0.25W
R512	ERD25TJ820	Carbon 820 5% 0.25W
R513	ERD25TJ102	Carbon 1kΩ 5% 0.25W
R514	ERD25TJ562	Carbon 5.6kΩ 5% 0.25W
R515	ERD25TJ471	Carbon 470Ω 5% 0.25W
R518	ERD25TJ391	Carbon 390Ω 5% 0.25W
R519	ERD25TJ562	Carbon 5.6kΩ 5% 0.25W
R520	ERD25TJ153	Carbon 15kΩ 5% 0.25W
R521	ERD25TJ102	Carbon 1kΩ 5% 0.25W
R522	ERD25TJ473	Carbon 47kΩ 5% 0.25W
R523	ERD25TJ102	Carbon 1kΩ 5% 0.25W
R527	ERO25CKF8201	Metal 8.20kΩ 1% 0.25W 🛆
R528	ERO25CKF3901	Metal 3.90kΩ 1% 0.25W Δ
R529	ERD25TJ101	Carbon 100Ω 5% 0.25W
R531	ERD25TJ222	Carbon 2.2kΩ 5% 0.25W
R532	ERD25TJ562	Carbon 5.6kΩ 5% 0.25W
R533	ERG2ANJ391	Metal 390 5% 2W ⚠
R534	ERD25TJ333	Carbon 33kΩ 5% 0.25W
R535	ERD25TJ392	Carbon 3.9kΩ 5% 0.25W
R536 R537	ERD25TJ103	Carbon 10kΩ 5% 0.25W Carbon 5.6kΩ 5% 0.25W
R538	ERD25TJ562 ERD25TJ472	Carbon 5.6kΩ 5% 0.25W Carbon 4.7kΩ 5% 0.25W
R542	ERD25TJ474	Carbon 470kΩ 5% 0.25W
R543	ERD25TJ103	Carbon 10kΩ 5% 0.25W
R545	ERD25TJ103	Carbon 10kΩ 5% 0.25W
R547	ERD25TJ474	Carbon 470kΩ 5% 0.25W
R551	ERF7ZJ100	Wound 10Ω 10% 7W Δ
R554	ERQ14AJ151	Film 150Ω 5% 0.25W Δ
R557	ERQ12HKR33	Film 0.33Ω 10% 0.5W Δ
R561	ERD25TJ153	Carbon 15kΩ 5% 0.25W
R562	ERD25TJ124	Carbon 120kΩ 5% 0.25W
		for TC-28A1F
	ERD25TJ134	Carbon 120kΩ 5% 0.25W
		for TC-24A1F
R565	ERQ1CJP102	Film 1kΩ 5% 1W Λ
R567	TSF19102	Fusable Link 🛆
R568	ERD25TJ274	Carbon 270kΩ 5% 0.25W
R570	ERD25TJ332	Carbon 3.3kΩ 5% 0.25W
R571	ERD25TJ472	Carbon 4.7kΩ 5% 0.25W
R572	ERD25TJ683	Carbon 68kΩ 5% 0.25W
R604	ERD25TJ183	Carbon 18kΩ 5% 0.25W
R606	EVND4AA00B14	SUB COLOUR 10kQB
R607	ERD25TJ103	Carbon 10kΩ 5% 0.25W
R608	ERD25TJ181	Carbon 180Ω 5% 0.25W
R609 R610	EVND4AA00B22 ERD25TJ391	SECAM R-Y REF. 200ΩB Carbon 390Ω 5% 0.25W
R611	ERD25TJ122	Carbon 390Ω 5% 0.25W Carbon 1.2kΩ 5% 0.25W
R612	ERD25TJ512	Carbon 5.1kΩ 5% 0.25W
R615	ERD25TJ122	Carbon 1.2kΩ 5% 0.25W
R616	ERD25TJ101	Carbon 100Ω 5% 0.25W
R617	ERD25TJ101	Carbon 100Ω 5% 0.25W
R618	ERD25TJ101	Carbon 100Ω 5% 0.25W
R619	ERD25TJ562	Carbon 5.6kΩ 5% 0.25W
R620	ERD25TJ101	Carbon 100Ω 5% 0.25W
R622	ERD25TJ471	Carbon 470Ω 5% 0.25W
R623	ERD25TJ681	Carbon 680Ω 5% 0.25W
R624	ERD25TJ152	Carbon 1.5kΩ 5% 0.25W
R625	ERD25TJ153	Carbon 15kΩ 5% 0.25W
R626	ERD25TJ822	Carbon 8.2kΩ 5% 0.25W

Ref. No.	Part No.		ion			
R627	ERD25TJ332	Carbon	3.3kΩ	5%	0.25W	
R628	ERD25TJ681	Carbon	680Ω	5%	0.25W	
R631	ERD25TJ153	Carbon	15kΩ	5%	0.25W	
R632	ERD25TJ333	Carbon	33kΩ	5%	0.25W	
R633	ERD25TJ333	Carbon	33kΩ	5%	0.25W	
R634	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R635	ERD25TJ103	Carbon	10kΩ	5%	0.25W	· · · · · · · · · · · · · · · · · · ·
R636	ERD25TJ102	Carbon	1kQ	5%	0.25W	
R639	ERD25TJ105	Carbon	1ΜΩ	5%	0.25W	
R651	ERD25TJ470	Carbon	47Ω	5%	0.25W	
R652	ERD25TJ470	Carbon	47Ω	5%	0.25W	
R653	ERD25TJ122	Carbon	1.2kΩ	5%	0.25W	
R654	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W	
R655	ERD25TJ822	Carbon	8.2kΩ	5%	0.25W	
R656	ERQ14AJ4R7	Film	4.7Ω	5%	0.25W	
R657	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R658	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R660	ERD25TJ332	Carbon	3.3kΩ	5%	0.25W	
R674	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R675	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R676	ERD25TJ274	Carbon	270kΩ	5%	0.25W	
R677	ERD25TJ393	Carbon	39kΩ	5%	0.25W	
R678	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R679	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R680	ERD25TJ154	Carbon	150kΩ	5%	0.25W	
R681	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R682	ERD25TJ392	Carbon	3.9kΩ	5%	0.25W	
R683	ERD25TJ223	Carbon	22kΩ	5%	0.25W	-
R684	ERD25TJ392	Carbon	3.9kΩ	5%	0.25W	
R685	ERD25TJ392	Carbon	3.9kΩ	5%	0.25W	
R686	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R687	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R688	ERD25TJ821	Carbon	820Ω	5%	0.25W	
R689	ERD25TJ331	Carbon	330Ω	5%	0.25W	
R690	ERD25TJ681	Carbon	680Ω	5%	0.25W	
R691	ERD25TJ153	Carbon	15kΩ	5%	0.25W	-
R692	ERD25TJ392		3.9kΩ	5%	0.25W	
		Carbon	'2.2kΩ		0.25W	
R693	ERD25TJ222	Carbon		5%		Δ
R751	ERO25CKF1803	Metal	180kΩ	1%	0.25W	<u> </u>
R752	ER025CKF1502	Metal	15.0kΩ	1%	0.25W	<u> </u>
R753	ERD25TJ303	Carbon for TC-24A		5%	0.25W	."
	ERD25TJ333	Carbon for TC-28A	33kΩ .1F	5%	0.25W	
R754	ERD25TJ224	Carbon	220kΩ	5%	0.25W	
R756	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R757	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R758	EVND4AA00B24	PARABOL	A 20kΩB			
R759	EVND4AA00B53	WIDTH 5k	ΩΒ			
R760	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R761	ERD25TJ183	Carbon	18kΩ	5%	0.25W	
R762	ERD25TJ683	Carbon	68kΩ	5%	0.25W	
R764	ERD25TJ274	Carbon	270kΩ	5%	0.25W	
R766	ERD25TJ272	Carbon	2.7kΩ	5%	0.25W	
R767	ERG1ANJ471	Metal	470Ω	5%	1W	Δ
R768	ERD25TJ182	Carbon	1.8kΩ	5%	0.25W	
			4.7kΩ	5%	0.25W	
R769	ERD25TJ472	Carbon	22Ω	5%		Λ
R770	ERQ12HJ220	Film			0.5W	213
R771	ERD25TJ684	Carbon	680kΩ	5%	0.25W	
R774	ERD25TJ104	Carbon	100kΩ	5%	0.25W	
R802	ERF7ZK4R7	Wound		10%	7W	
R803	ERDS1TJ564	Carbon	560kΩ	5%	0.5W	
R810	ERQ1CJP3R3	Film	3.3Ω	5%	1W	
R811	ERW12PKR27	Wound	0.27Ω	5%	0.5W	<u> </u>
R812	ERG2ANJ470	Metal	47Ω	5%	2W	Δ
R813	ERG1ANJ683	Metal	68kΩ	5%	1W	Δ
R814	ERD75TAJ825	Carbon	8.2ΜΩ	5%	0.75W	Δ
R815	ERQ12HJ5R6	Film	5.6Ω	5%	0.5W	Δ
R816	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R817	ERDS1TJ473	Carbon	47kΩ	5%	0.5W	
R818	ERD25TJ124	Carbon	120kΩ	5%	0.25W	
	v.v.t			- / 0		

Ref. No.	Part No.		De	script	ion	
R821	ERDS1TJ393	Carbon	39kΩ	5%	0.5W	
R822	ERDS1TJ473	Carbon	47kΩ	5%	0.5W	
R851	ERQ12HJ1R2	Film	1.2Ω	5%	0.5W	Δ
R852	ERQ2CKPR47	Film	0.47Ω	10%	2W	Δ
R854	ERQ2CKPR33	Film	0.33Ω	10%	2W	Δ
R855	ERG3SJ180	Metal	18Ω	5%	3W	Δ
R1101	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R1102	ERD25TJ100	Carbon	10Ω	5%	0.25W	
R1103	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1104	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R1105	ERD25TJ223	Carbon	22kΩ	5%	0.25W	
R1201	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1202	ERD25TJ221	Carbon	220Ω	5%	0.25W	·
R1203	ERD25TJ221	Carbon	220Ω	5%	0.25W	
R1204	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R1205	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R1207	ERD25TJ221 ERD25TJ182	Carbon	220Ω 1.8kΩ	5% 5%	0.25W 0.25W	
R1209 R1210	ERD25TJ182	Carbon	1.8kΩ	5%	0.25W	
R1211	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W	
R1212	ERDS1TJ221	Carbon	220Ω	5%	0.5W	
R1213	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1214	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1215	ERG2ANJ680	Metal	68Ω	5%	2W	Δ
R1217	ERD25TJ271	Carbon	270Ω	5%	0.25W	
R1219	ERD25TJ182	Carbon	1.8kΩ	5%	0.25W	
R1221	ERD25TJ471	Carbon	470Ω	5%	0.25W	1
R1222	- ERD25TJ471	Carbon	470Ω	5%	0.25W	
R1223	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R1224	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R1225	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R1226	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R1227	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R1229	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R1233	ERD25TJ105	Carbon	1ΜΩ	5%	0.25W	
R1234	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1235	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1236	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W	
R1237	ERDS1TJ121	Carbon	120Ω	5%	0.5W	
R1238	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W	
R1239	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1240	ERD25TJ221	Carbon	220Ω	5%	0.25W	
R1241	ERD25TJ221	Carbon	220Ω	5%	0.25W	
R1251	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1252	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1253	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1254	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1255	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1256	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1257	ERD25TJ391	Carbon	390Ω	5%	0.25W 0.25W	
R1258	ERD25TJ391 ERD25TJ391	Carbon	390Ω	5% 5%	0.25W	
R1259 R1261	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1262	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1263	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1264	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1265	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R1266	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W	
R1267	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W	
R1270	ERD25TJ563	Carbon	56kΩ	5%	0.25W	
R1271	ERD25TJ392	Carbon	3.9kΩ	5%	0.25W	
R1272	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1273	ERD25TJ331	Carbon	330Ω	5%	0.25W	
R1274	ERD25TJ331	Carbon	330Ω	5%	0.25W	
R1276	ERD25TJ221	Carbon	220Ω	5%	0.25W	
R1277	ERD25TJ331	Carbon	330Ω	5%	0.25W	
R1278	ERD25TJ104	Carbon	100kΩ	5%	0.25W	
R1281	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1283	TSF19631	Fusable L	ink			Δ
R1285	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R1286	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R1287	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W	

Ref. No.	Part No.	Description				
R1289	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W	
R1290	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R1291	ERD25TJ182	Carbon	1.8kΩ	5%	0.25W	
R1295	ERD25TJ331	Carbon	330Ω	5%	0.25W	
R1310	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R1311	ERD25TJ393	Carbon	39kQ	5%	0.25W	
R1312	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1313	ERD25TJ332	Carbon	3.3kΩ	5%	0.25W	
R1314	ERD25TJ473	Carbon	47kΩ	5%	0.25W	_
R1315	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1316	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R1317	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R1322	ERD25TJ103	Carbon	10kΩ	5%	0.25W	_
R2101	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2102	ERD25TJ153	Carbon	15kΩ	5%	0.25W	
R2103	ERD25TJ824	Carbon	820kΩ	5%	0.25W	
R2104	ERD25TJ183	Carbon	18kΩ	5%	0.25W	_
R2105	ERD25TJ561	Carbon	560Ω	5%	0.25W	
R2106	ERD25TJ184	Carbon	180kΩ	5%	0.25W	
R2110	ERD25TJ821	Carbon	820Ω	5%	0.25W	
R2111	ERD25TJ470	Carbon	47Ω	5%	0.25W	
R2112	ERQ14AJ330	Film	33Ω	5%	0.25W	4
R2113	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R2114	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R2115	ERD25TJ332	Carbon	3.3kΩ	5%	0.25W	
R2117	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2118	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W	_
R2119	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W	
R2121	ERD25TJ681	Carbon	680Ω	5%	0.25W	
						
R2122	ERD25TJ392	Carbon	3.9kΩ	5%	0.25W	
R2123	ERD25TJ392	Carbon	3.9kΩ	5%	0.25W	
R2126	ERD25TJ470	Carbon	47Ω	5%	0.25W	
R2128	ERD25TJ331	Carbon	330Ω	5%	0.25W	
R2134	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R2136	ERD25TJ272	Carbon	2.7kΩ	5%	0.25W	
R2137	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2138	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2140	ERD25TJ392	Carbon	3.9kΩ	5%	0.25W	
R2141	ERD25TJ392	Carbon	3.9kΩ	5%	0.25W	
R2146	ERD25TJ682	Carbon	6.8kΩ	5%	0.25W	-
R2147	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2148	ERD25TJ331	Carbon	330Ω	5%	0.25W	_
R2149	ERD25TJ470	Carbon	47Ω	5%	0.25W	
				5%		
R2151	ERD25TJ472	Carbon	4.7kΩ		0.25W	
R2152	ERD25TJ122	Carbon	1.2kΩ	5%	0.25W	
R2153	ERD25TJ182	Carbon	1.8kΩ	5%	0.25W	
R2154	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R2155	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2156	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W	
R2157	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W	
R2158	ERD25TJ332	Carbon	3.3kΩ	5%	0.25W	
R2159	ERD25TJ182	Carbon	1.8kΩ	5%	0.25W	
R2160	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2161	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2162	ERD25TJ101	Carbon	. 100Ω	5%		
R2163	ERD25TJ332	Carbon	3.3kΩ	5%	0.25W	
R2164	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
		-				_
R2165	ERD25TJ181	Carbon	180Ω	5%	0.25W	
R2166	ERD25TJ332	Carbon	3.3kΩ	5%	0.25W	_
R2167	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2168	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2169	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2201	ERD25TJ474	Carbon	470kΩ	5%	0.25W	
R2202	ERD25TJ182	Carbon	1.8kΩ	5%	0.25W	
R2203	ERD25TJ104	Carbon	-100kΩ	5%	0.25W	
R2204	ERD25TJ273	Carbon	27kΩ	5%	0.25W	
R2205	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2206	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W	
R2207	ERD25TJ563	Carbon	56kΩ	5%	0.25W	
00000	ERD25TJ224	Carbon	220kΩ	5%	0.25W	
R2208 R2209	EVND4AA00B52	STEREO				

Def No	1	1				 -
Ref. No.	Part No.			script		
R2211	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R2212	ERD25TJ398	Carbon	39kΩ	5%	0.25W	
R2213	ERD25TJ224	Carbon	220kΩ	5%	0.25W	
R2214	ERD25TJ153	Carbon	15kΩ	5%	0.25W	
R2215	ERD25TJ824	Carbon	820kΩ	5%	0.25W	
R2220	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R2221	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R2224	EVND4AA00B54	SAPARAT	TION 50kg	ΩB		-
R2225	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2226	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2227	ERD25TJ223	Carbon	22kΩ	5%	0.25W	
R2228	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R2230	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R2231	ERD25TJ333	Carbon	33kΩ	5%	0.25W	
R2232	ERD25TJ333	Carbon	33kΩ	5%	0.25W	
R2235	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R2236	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R2237	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2240	ERQ14AJ330	Film	33Ω	5%	0.25W	Δ
R2241	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2243	ERD25TJ271	Carbon	270Ω	5%	0.25W	
R2247				_		
	ERD25TJ271	Carbon	270Ω	5%	0.25W	
R2256	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2257	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R2258	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R2259	ERD25TJ473	Carbon	47kΩ	5%	0.25W	
R2260	ERD25TJ333	Carbon	33kΩ	5%	0.25W	
R2261	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2262	ERQ14AJ100	Film	. 10Ω	5%	0.25W	Δ
R2263	ERD25TJ682	Carbon	6.8kΩ	5%	0.25W	
R2264	ERQ12HJ470	Film	47Ω	5%	0.5W	
R2265	ERD25TJ223	Carbon	22kΩ	5%	0.25W	
R2266	ERD25TJ333	Carbon	33kΩ	5%	0.25W	
R2268	ERD25TJ153	Carbon	15kΩ	5%	0.25W	
R2269	ERD25TJ153	Carbon	15kΩ	5%	0.25W	
R2270	ERD25TJ563	Carbon	56kΩ	5%	0.25W	
R2271	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2272	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2273	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2301	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2305	ERD25TJ183	Carbon	18kΩ	5%	0.25W	
R2306	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2307	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2308	ERD25TJ223	Carbon	22kΩ	5%	0.25W	
R2310	ERD25TJ123	Carbon	12kΩ	5%	0.25W	
R2312	ERD25TJ103		10kΩ	5%	0.25W	
R2313	ERD25TJ153	Carbon	15kΩ	5%	0.25W	
		Carbon				
R2314	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2315	ERD25TJ123	Carbon	12kΩ	5%	0.25W	
R2316	ERD25TJ223	Carbon	22kΩ	5%	0.25W	
R2317	ERD25TJ223	Carbon	22kΩ	5%	0.25W	
R2318	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2319	ERD25TJ153	Carbon	15kΩ	5%	0.25W	
R2320	ERD25TJ104	Carbon	100kΩ	5%	0.25W	
R2321	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2324	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2351	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2352	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2353	ERD25TJ151	Carbon	150Ω	5%	0.25W	
R2354	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2354	ERD25TJ151	Carbon	150Ω	5%	0.25W	
R2355	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2356	ERD25TJ103	Carbon	10kQ	5%	0.25W	
R2357	ERD25TJ104	Carbon	100kΩ	5%	0.25W	
R2358	ERD25TJ104	Carbon	100kΩ	5%	0.25W	
R2359	ERQ14AJ4R7	Film	4.7Q	5%	0.25W	Δ
R2360	ERQ14AJ4R7	Film	4.7Ω	5%	0.25W	Δ
R2361	ERD25TJ274	Carbon	270kΩ	5%	0.25W	
R2362	ERD25TJ913	Carbon	91kΩ	5%	0.25W	
R2363	ERQ14AJ101	Film	100Ω	5%	0.25W	Δ
R2364	ERD25TJ332	Carbon	3.3kΩ	5%	0.25W	
R2365	ERD25TJ332		3.3kΩ	5%	0.25W	
H2305	LILDZUIJOSZ	Carbon	U.JKM	J /0	U.2017	

Ref. No.	Part No.									ion
R2366	ERF10ZK4R7	Wound	4.7Ω	10%	10W					
R2367	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W					
R2368	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W					
R2369	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W					
R2370	ERD25TJ222	Carbon	2.2kΩ	5%	0.25W					
R2401	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W					
R2402	ERD25TJ102	Carbon	1kΩ	5%	0.25W					
R2403	ERD25TJ153	Carbon	15kΩ	5%	0.25W					
R2408	ERD25TJ750	Carbon	75Ω	5%	0.25W					
R2418	ERD25TJ823	Carbon	82kΩ	5%	0.25W					
R2419	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W					
R2420	ERD25TJ823	Carbon	82kΩ	5%	0.25W					
R2421			······································		· ····					
	ERD25TJ103	Carbon	10kΩ	5%	0.25W					
R2422	ERD25TJ102	Carbon	1kΩ	5%	0.25W					
R2423	ERD25TJ101	Carbon	100Ω	5%	0.25W					
R2424	ERD25TJ101	Carbon	100Ω	5%	0.25W					
R2425	ERD25TJ823	Carbon	82kΩ	5%	0.25W					
R2426	ERD25TJ474	Carbon	470kΩ	5%	0.25W					
R2427	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W					
R2428	ERD25TJ472	Carbon	4.7kΩ	5%	0.25W					
R2429	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W					
R2430	ERD25TJ102	Carbon	1kΩ	5%	0.25W					
R2431	ERD25TJ823	Carbon	82kΩ	5%	0.25W					
R2432	ERD25TJ823	Carbon	82kΩ	5%	0.25W					
R2433	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W					
R2434	ERD25TJ474	Carbon	470kΩ	5%	0.25W					
R2435	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2436	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2437	ERD25TJ103	Carbon	10kΩ	5%	0.25W					
R2438	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W					
R2439	ERD25TJ474			5%	0.25W					
		Carbon	470kΩ							
R2440	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2441	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2442	ERD25TJ103	Carbon	10kΩ	5%	0.25W					
R2443	ERD25TJ563	Carbon	56kΩ	5%	0.25W					
R2444	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2446	ERD25TJ153	Carbon	15kΩ	5%	0.25W					
R2447	ERD25TJ102	Carbon	1kΩ	5%	0.25W					
R2448	ERD25TJ102	Carbon	1kΩ	5%	0.25W					
R2449	ERD25TJ223	Carbon	22kΩ	5%	0.25W					
R2450	ERD25TJ750	Carbon	75Ω	5%	0.25W					
R2451	ERD25TJ823	Carbon	82kΩ	5%	0.25W					
R2452	ERQ12HJ4R7	Film	4.7Ω	5%	0.5W A					
R2453	ERD25TJ221	Carbon	220Ω	5%	0.25W					
R2454	ERD25TJ221	Carbon	220Ω	5%	0.25W					
R2456	ERD25TJ393	Carbon	39kΩ	5%	0.25W					
	ERD25TJ102									
R2457		Carbon	1kΩ 1kΩ	5%	0.25W					
R2458	ERD25TJ102	Carbon		5%	0.25W					
R2459	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2460	ERD25TJ103	Carbon	10kΩ	5%	0.25W					
R2461	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W					
R2462	ERD25TJ562	Carbon	5.6kΩ	5%	0.25W					
R2463	ERD25TJ474	Carbon	470kΩ	5%	0.25W					
R2464	ERD25TJ474	Carbon	470kΩ	5%	0.25W					
R2465	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2466	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2467	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2468	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2469	ERD25TJ103	Carbon	10kΩ	5%	0.25W					
R2470	ERD25TJ103	Carbon	10kΩ	5%	0.25W					
R2471	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2472	ERD25TJ474	Carbon	470kΩ	5%	0.25W					
	· · · · · · · · · · · · · · · · · · ·	+								
R2477	ERD25TJ224	Carbon	220kΩ	5%	0.25W					
R2478	ERD25TJ103	Carbon	10kΩ	5%	0.25W					
R2479	ERD25TJ750	Carbon	75Ω	5%	0.25W					
R2480	ERD25TJ471	Carbon	470Ω	5%	0.25W					
R2481	ERD2FCG100P	RESISTOR	10Ω							
R2482	ERD25TJ221	Carbon	220Ω	5%	0.25W					
R2483	ERD25TJ101	Carbon	100Ω	5%	0.25W					
		1	10kΩ	5%	0.25W					
R2484	ERD25TJ103	Carbon	10077							
R2484 R2485	ERD25TJ103 ERD25TJ103	Carbon	10kΩ	5%	0.25W					

Ref. No.	Part No.		Des	crip	tion	
R2487	ERD25TJ221	Carbon	220Ω	5%	0.25W	
R2488	ERD25TJ104	Carbon	100kΩ	5%	0.25W	
R2489	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2490	ERD25TJ221	Carbon	220Ω	5%	0.25W	
R2491	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2492	ERD25TJ104	Carbon	100kΩ	5%	0.25W	
R2493	ERD25TJ104	Carbon	100kΩ	5%	0.25W	
R2494	ERD25TJ680	Carbon	68Ω	5%	0.25W	
R2495	ERD25TJ153	Carbon	15kΩ	5%		
R2602	ERD25TJ104	Carbon	100kΩ	5%		
R2603	ERD25TJ104	Carbon	100kΩ	5%		
R2604	ERD25TJ221	Carbon	220Ω	5%		
R2605	ERD25TJ104	Carbon	100kΩ	5%		
R2606	ERD25TJ221		220Ω	5%		
	 	Carbon				
R2608	ERD25TJ750	Carbon	75Ω	5%		
R2610	ERD25TJ750	Carbon	75Ω	5%		
R2612	ERD25TJ750	Carbon	75Ω	5%		
R2613	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2614	ERD25TJ750	Carbon	75Ω	5%		
R2620	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2621	ERD25TJ750	Carbon	75Ω	5%	0.25W	
R2623	ERD25TJ681	Carbon	680Ω	5%	0.25W	
R2625	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2627	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2628	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
R2629	ERD25TJ391	Carbon	390Ω	5%	0.25W	
R2631	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2632	ERD25TJ680	Carbon	68Ω	5%	0.25W	
R2633	ERD25TJ472	Carbon	4.7kΩ	5%		
R2634	ERQ12HJ8R2	Film	8.2Ω	5%	0.5W	Δ
R2635	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R2636	ERD25TJ102	Carbon	1kΩ	5%	0.25W	
R2638	ERDS1TJ222	Carbon	2.2kΩ	5%	0.5W	
R2640	ERD25TJ471	Carbon	470Ω	5%	0.25W	
R2641	ERD25TJ333	Carbon	33kΩ	5%	0.25W	
R2660	ERD25TJ152	Carbon	1.5kΩ	5%	0.25W	
R2661	ERD25TJ101	Carbon	100Ω	5%	0.25W	
R2662	ERD25TJ152	Carbon	1.5kΩ	5%	0.25W	
R2663	ERD25TJ223	Carbon	22kΩ	5%	0.25W	
R2664	ERD25TJ223	Carbon	22kΩ	5%	0.25W	
R2665	ERD25TJ182	Carbon	1.8kΩ	5%	0.25W	
R2666	ERD25TJ684	Carbon	680kΩ	5%	0.25W	
R2667	ERD25TJ103	Carbon	10kΩ	5%	0.25W	
	CAPACITORS					
C11	ECEA50Z1	Electrolytic	1	μF	50V	
C12	ECEA1CU100	Electrolytic		μF	16V	
C13	ECKC1H103J	Ceramic		nF	50V	
C14	ECEA1CU330	Electrolytic		μF	16V	
C15	ECEA50Z1	Electrolytic		μF	50V	
					50.V	
C26	ECEA1HU010	Electrolytic		μF nF		
C27	ECKC1H103J	Ceramic			50V	
C28	ECKC1H103J	Ceramic	10		50V	
C29	ECEA16Z10	Electrolytic	10		16V	
C30	ECKC1H103J	Ceramic		nF	50V	
C31	ECKC1H103J	Ceramic	10	nF	50V	
C70	ECEA1HU010	Electrolytic	1	μF	50V	
C71	ECEA1HU100	Electrolytic	10	μF	50V	
C104	ECCR1H050J	Ceramic.	5	ρF	50V	
C105	ECKC1H103J	Ceramic	10		50V	
C106	ECKC1H103J	Ceramic	10		50V	
C108	ECEA50Z2R2	Capacitor	2.2		50V	
C109	ECCR1H150J	Ceramic	15		50V	
C110	ECKC1H103J	Ceramic	10		50V	
C111	ECEA1CU102	Electrolytic	1000		16V	
C112	ECKC1H103J	Ceramic	1000		50V	
					50V	
C113	ECCR1H220J	Ceramic	22			
C114	ECKC1H103J	Ceramic	10:		50V	
C115	ECKC1H103J	Ceramic	101		50V	
C116	ECEA1EN4R7	Electrolytic	4.7		25V	
C117	ECKC1H102J	Ceramic		ıF	50V	
	ECDUA-007A44	Trimmer Ca	nacitor	7pF		
C118	ECRHA007A11 ECCR1H120J	Ceramic	12		50V	

Ref. No.	Part No.		Descr	iption	
C120	ECQM1H333JZ	Plastic FILM	33nF	50V	
C121	ECRHA007A11	Trimmer Cap	acitor 7p	F	
C122	ECEA50ZR47	Electrolytic	0.47µF	50V	
C124	ECKC1H103J	Ceramic	10nF	50V	
C125	ECKC1H103J	Ceramic	10nF	50V	
C126	ECKC1H103J	Ceramic	10nF	50V	
C127	ECQM1H153JZ	Plastic FILM	15nF	50V	
C128	ECEA1HN010	Electrolytic	1µF	50V	
C129	ECEA1CU470	Electrolytic	47µF	16V	
C130	ECEA1HUR47	Electrolytic	0.47µF	50V	
C131	ECKC1H561J	Ceramic	560pF	50V	
C133	ECEA50ZR1	Electrolytic	0.1µF	50V	
C142	ECEA1HN2R2	Electrolytic	2.2µF	50V	
C143	ECCR1H080C	Ceramic	8pF	50V	
C171	ECQM1H472JZ	Plastic Film	4.7nF	50V	
C172	ECCR1H330J	Ceramic	33pF	50V	
C175	ECQV1H105JZ	Plastic Film	1µF	50V	
C176	ECKC1H103J	Ceramic	10nF	50V	
C177	ECEA1AU220	Electrolytic		10V	
			22µF		
C179	ECQV1H474JZ	Plastic Film	470nF	50V	
C184	ECEA1HU010	Electrolytic	1µF	50V	
C186	ECCR1H181J	Ceramic	180pF	50V	
C187	ECKC1H271J	Ceramic	270pF	50V	
C209	ECEA1CU100	Electrolytic	10µF	16V	
C210	ECEA50ZR22	Electrolytic	0.22µF	50V	
C211	ECEA1CU220	Electrolytic	22µF	16V	·
C212	ECKC1H103J	Ceramic	10nF	50V	
C213	ECKC1H103J	Ceramic	10nF	50V	
C214	ECEA1EU4R7	Electrolytic	4.7µF	25V	
C216	ECEA50ZR22	Electrolytic	0.22µF	50V	
C217	ECEA1CU222	Electrolytic	2200µF	16V	
C218	ECEA1CU101	Electrolytic	100µF	16V	
C219	ECEA1EU4R7	Electrolytic	4.7µF	25V	
C301	ECKC1H103J	Ceramic	10nF	50V	
C302	ECQM1H153J	Plastic Film	15nF	50V	
C308	ECQV1H104JZ	Plastic Film	100nF	50V	
C309	ECEA1HU100	Electrolytic	10µF	50V	
C311	ECEA1HUR47	Electrolytic	0.47µF	50V	
C312	ECQV1H334JZ	Plastic Film	330nF	50V	
C313	ECQV1H334JZ	Plastic Film	330nF	50V	
C314	ECQV1H334JZ	Plastic Film	330nF	50V	
C323	ECCR1H470J	Ceramic	47pF	50V	
C327	ECCR1H820J	Ceramic	82pF	50V	
C328	ECKC1H103J	Ceramic	10nF	50V	
C351	ECCR1H271J	Ceramic	270pF	50V	
C352	ECCR1H331J	Ceramic	330pF	50V	
C353	ECCR1H271J	Ceramic	270pF	50V	
C355	ECKC3D152J	Ceramic	1.5nF	2kV	
C357	ECKC2H152J	Ceramic	1.5nF	500V	
C358	ECEA1HU220	Electrolytic	22µF	50V	
C368	ECEA2ES010	Electrolytic	1µF	250V	
C371	ECEA1EU470	Electrolytic	47µF	25V	
C375	ECEA1HU100	Electrolytic	10µF	50V	
C376	ECCR1H470J	Ceramic	47pF	50V	
C377	ECCR1H470J	Ceramic	47pF	50V	
C378	ECCR1H470J	Ceramic	47pF	50V	
C401	ECQV1H334JZ	Plastic Film	330nF	50V	
C402	ECQV1H334JZ	Plastic Film	330nF	50V	
C403	ECKC1H103J	Ceramic	10nF	50V	
C452	ECKC2H332J	Ceramic	3.3nF	500V	
C453	ECQM1H333JZ	Plastic Film	33nF	50V	
C455	ECEA1HGE101	Electrolytic	100µF	50V	
C456	ECEA1VGE222	Electrolytic	2200µF	35V	
C457	ECQV1H334JZ	Plastic Film	330nF	50V	
C458	ECEA1VU332	Electrolytic	3300µF	35V	
C459	ECQV1H104JZ	Plastic Film	100nF	50V	
C462	ECQM1H223JZ	Plastic Film	22nF	50V	
C465	ECQV1H474JZ	Plastic Film	470nF	50V	• • • • • • • • • • • • • • • • • • • •
C466	ECEA25Z4R7	Electrolytic	4.7µF	25V	
					• • • • • • • • • • • • • • • • • • • •
C501 C502	ECQV1H104JZ	Plastic Film	100nF	50V	
COULTY	ECQP1152GZ	Plastic Film	1.5nF	100V	

Ref. No.	Part No.		Descri	iption	
C504	ECEA1CU102	Electrolytic	1000µF		
C505	ECKC1H101J	Ceramic	100pF		
C506	ECEA1HU220	Electrolytic	22µF		
C507	ECEA1HU010	Electrolytic	1µF		
C510	ECQM1H682J	Plastic Film	6.8nF		
C515	ECQM1H122J	Plastic Film	1.2nF		
C517	ECQV1H154JZ	Plastic Film	150nF		
C518 C519	ECEA1CU330	Electrolytic Electrolytic	10μF 33μF		
C519	ECEA1CU330 ECEA1VU4R7	Electrolytic	33μF 4.7μF		
C522	ECEATON100	Electrolytic	4.7μF 10μF		
C525	ECEA1CU470	Electrolytic	. 47μF		
C531	ECQM1103KZ	Plastic Film	10nF		
C541	ECEA1HU2R2	Electrolytic	2.2µF		
C542	ECEA1JU100	Electrolytic	10µF		
C543	ECEA1CU100	Electrolytic	10µF	16V	
C551	ECEA2VG010	Electrolytic	1µF		
C552	ECWF2H824J	Polypropylene			. •
C553	ECEA2CS4R7	Electrolytic	4.7µF		
C554	ECEA2ES100	Electrolytic	10µF		
C555	ECKC2H471J	Ceramic	470pF		
C556	ECKC3F102J	Ceramic	1nF	3kV	<u>A</u>
C558	ECWH12H822J	Metalized	8.2nF		Δ
C560	ECWF2H334J	Polypropylene		200V	<u>A</u>
C561	ECKC3D561J	Ceramic -	560pF	2kV	<u> </u>
C602	ECQM1H223JZ	Plastic Film	22nF	50V	
C603	ECQM1H223JZ	Plastic Film	22nF	50V	
C604	ECQM1H223JZ ECCR1H680.1	Plastic Film Ceramic	22nF 68nF	50V	
C606	ECCR1H680J ECEA1HU010	Ceramic	68pF	50V	
C607	ECEA1HU010 ECCR1H121J	Electrolytic Ceramic	1μF 120pF	50V	•
C608 C609	ECCR1H121J ECCR1H220J	Ceramic	120pF 22pF	50V	
C609	ECCR1H220J ECCR1H220J	Ceramic	22pF 22pF	50V 50V	
C610 C611	ECCR1H220J ECCR1H221J	Ceramic	22pF 220pF	50V	
C612	ECKC1H103J	Ceramic	10nF	50V	
C612	ECKC1H103J	Ceramic	10nF	50V	
C615	ECQV1H334JZ	Plastic Film	330nF	50V	
C617	ECCR1H680J	Ceramic	68pF	50V	
C618	ECCR1H221J	Ceramic	220pF	50V	·
C619	ECCR1H121J	Ceramic	120pF	50V	
C620	ECKC1H222J	Ceramic	2.2nF	50V	
C621	ECQM1H473JZ	Plastic Film	47nF	50V	
C622	ECQV1H334JZ	Plastic Film	330nF	50V	
C623	ECQV1H334JZ	Plastic Film	330nF	50V	
C624	ECQV1H334JZ	Plastic Film	330nF	50V	
C626	ECKC1H103J	Ceramic	10nF	50V	-
C627	ECEA1CU221	Electrolytic	220µF	16V	
C629	ECQM1H223JZ	Plastic Film	22nF	50V	
C630	ECKC1H102J	Ceramic	1nF	50V	
C631	ECCR1H220J	Ceramic	22pF	50V	
C632	ECCR1H121J	Ceramic	120pF	50V	
C634	ECCR1H391J	Ceramic	390pF	50V	
C635	ECKC1H472J	Ceramic	4.7nF	50V	
C636	ECKC1H472J	Ceramic	4.7nF	50V	
C637	ECRHA030E11	Trimmer Capa			
C638	ECEA1HU010	Electrolytic	1μF	50V	
C639	ECQM1H223JZ	Plastic Film	22nF	50V	
C642	ECKC1H103J	Ceramic	10nF	50V	
C651	ECEA1HUR33	Electrolytic	0.33µF	50V	
C652	ECEA1HUR33	Electrolytic	0.33µF	50V	
C653	ECCR1H101J	Ceramic	100pF	50V	
C654	ECCR1H101J ECKC1H331J	Ceramic	100pF 330pF	50V	
C655	ECKC1H331J ECKC1H471J	Ceramic	330pF 470pF	50V	
C656	ECKC1H471J ECOM1H223JZ	Ceramic Plastic Film	470pF 22pF	50V	
C657	ECQM1H223JZ ECQM1H223JZ	Plastic Film	22nF	50V	
C658 C659	ECQM1H223JZ ECKC1H471J	Plastic Film Ceramic	22nF 470pF	50V 50V	
C659 C661	ECEA1CN220	Electrolytic		50V 16V	
C662	ECKC1H332J	Ceramic	22µF 3.3nF	16V 50V	
C663	ECEA1EU470	Electrolytic	3.3nF 47μF	25V	
C664	ECKC1H101J~~	Ceramic	4/μF 100pF	50V	
C665	ECKC1H101J	Ceramic	100pF	50V	
0000	EUNU IIII II	Ceraniic	1000	301	

Ref. No.	Part No.	ption			
C681	ECEA1HN010	50V			
C682	ECCR1H220J	Ceramic	22pF	50V	
C683	ECCR1H101J	Ceramic	100pF	50V	
C684	ECQV1H105JZ	Plastic Film	1µF	50V	
C685	ECEA1EN3R3	Electrolytic	3.3µF		
C751	ECQV1H104JZ	Plastic Film	100nF	50V	
C752	ECQV1H104JZ	Plastic Film	100nF	50V	
C753	ECQM10223JZ	Plastic Film	22nF	1kV	
				50V	
C754	ECCR1H181J	Ceramic	180pF		
C755	ECEA1VU470	Electrolytic	47µF	35V	
C756	ECEA1EU221	Electrolytic	220µF	25V	
C758	ECQM1225KNB	Plastic Film	2.2µF	100V	Δ
C760	ECEA1EN4R7	Electrolytic	4.7µF	25V	
C801	222233040473	Capacitor	0.047µF		A
C802	222233040473	Capacitor	0.047µF		Δ
C803	ECKC2H472J	Ceramic	4.7nF	500V	
C804	ECKC2H472J	Ceramic	4.7nF	500V	
C805	ECKC2H472J	Ceramic	4.7nF	500V	
	ECKC2H472J				
C806		Ceramic	4.7nF	500V	
C807	ECOS2GA221CA	Capacitor	220µF	400V	
C808	ECEA1HFS100	Electrolytic	10µF	50V	
C809	ECQV1H334JZ	Plastic Film	330nF	50V	
C810	ECKC2H103J	Ceramic	10nF	500V	
C811	ECKC3A821J	Ceramic	820pF	1kV	
C812	ECKC3A471J	Ceramic	470pF	1kV	
C813	ECKCNS332J	Ceramic	3.3nF	4kV	
C815	ECKC2H471J	Ceramic	470pF	500V	
C816	ECQM6473KZ	Plastic Film	47nF	600V	
C817	ECKC1H471J	Ceramic	470pF	50V	
C820	ECKC3A102J	Ceramic	1nF	1kV	
C831	ECKCNS471J	Capacitor	470pF		Δ
C851	ECKC3A152J	Ceramic	1.5nF	1kV	
C852	ECKC2H681J	Ceramic	680pF	500V	
C853	ECKC2H561J	Ceramic	560pF	500V	
C854	ECEA2EG101	Electrolytic	100µF	250V	
C855	ECEA1VGE101	Electrolytic	100µF	35V	
C856	ECEA1VGE471	Electrolytic	470µF	35V	
C857	ECKC2H471J	Ceramic	470pF	500V	
C858	ECEA1EGE102	Electrolytic	1000µF	25V	
C859	ECEA1EGE100	Electrolytic	10µF	25V	
C860	ECKC1H103J	Ceramic	10nF	50V	
C861	ECEA1CGE101	Electrolytic	100µF	16V	
C863	ECQV1H105JZ	Plastic Film	1µF	50V	
C1101	ECEA16Z10	Electrolytic	10µF	16V	
C1102	ECEA1CU100	Electrolytic	10µF	16V	
C1103	ECEA1CU100	Electrolytic	10µF	16V	
C1104	ECQM1H392JC	Plastic Film	3.9nF	50V	
C1105	ECQM1H333J	Plastic Film	33nF	50V	
C1106	ECQP1392JZ	Plastic	3.9nF	100V	
C1107	ECEA0JU101			6.3V	
		Electrolytic	100µF		
C1201	ECKC1H103J	Ceramic	10nF	50V	
C1202	ECQM1H272JZ	Plastic Film	2.7nF	50V	
C1203	ECEA0JU101	Electrolytic	100µF	6.3V	
C1204	ECQM1H333JZ	Plastic Film	33nF	50V	
C1205	ECKC1H103J	Ceramic	10nF	50V	
		on M-BOARD			
	ECOV1H104 17	Plastic Film	100nF	50\/	
	ECQV1H104JZ	on E-BOARD	TOORF	50V	
04000	F0F4400F100		1000 -	4614	
C1206	ECEA1CGE102	Electrolytic	1000µF	16V	
C1207	ECCR1H150J	Ceramic	15pF	50V	
C1208	ECCR1H270J	Ceramic	27pF	50V	
C1212	ECKC1H103J	Ceramic	10nF	50V	
C1213	ECKC1H103J	Ceramic	10nF	50V	
C1214	ECEA0JGE221	Electrolytic	220µF	6.3V	
C1221	ECKC1H103J	Ceramic	10nF	50V	· · · · · · · · · · · · · · · · · · ·
C1222	ECEA1HU010	Electrolytic	1µF	50V	
C1223	ECQM1H563J	Plastic Film	56nF	50V	
C1226	ECKC1H103J	Ceramic	10nF	50V	
C1227	ECQV1H104JZ	Plastic Film	100nF	50V	
C1210	ECEA1CU100	Electrolytic	10µF	16V	
C1310					
C1310	ECEA1CU101	Electrolytic	100µF	16V	

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Ref. No.	Part No.		Descri	·	
C1314	ECEA1HU2R2	Electrolytic	2.2µF	50V	
C2101	ECKC1H103J	Ceramic	10nF	50V	
C2102	ECKC1H103J	Ceramic	10nF	50V	
C2104	ECQM1H472JZ	Plastic Film	4.7nF	50V	
C2105	ECQM1H472JZ	Plastic Film	4.7nF	50V	
C2106	ECEA1CU100	Electrolytic	10µF	16V	
C2107	ECKC1H103J	Ceramic	10nF	50V	
C2108	ECEA50ZR47	Electrolytic	0.47µF	50V	
C2109	ECQM1H103KZ	Plastic Film	10nF	50V	
C2110	ECEA1HU010	Electrolytic	1µF	50V	
C2111	ECQM1H103KZ	Plastic Film	10nF	50V	
C2112	ECEA1CU330	Electrolytic	33µF	16V	
C2113	ECKC1H103J	Ceramic	10nF	50V	
C2114	ECEA1HUR47	Electrolytic	0.47µF	50V	
C2115	ECCR1H150J	Ceramic	15pF	50V	
C2116	ECKC1H103J	Ceramic	10nF	50V	
C2117	ECKC1H102J	Ceramic	1nF	50V	
C2120	ECQM1H103KZ	Plastic Film	10nF	50V	
C2122	ECQM1H103KZ	Plastic Film	10nF	50V	
C2123	ECCR1H331J	Ceramic	330pF	50V	
C2125	ECCR1H561J	Ceramic	560pF	50V	
C2126	ECQM1H393J	Plastic Film	39nF	50V	
C2127	ECCR1H470J	Ceramic	47pF	50V	
C2128	ECKC1H103J	Ceramic	10nF	50V	
C2129	ECEA1CU330	Electrolytic	33µF	16V	
C2130	ECKC1H103J	Ceramic	10nF	50V	
C2132	ECKC1H103J	Ceramic	10nF	50V	
C2134	ECKC1H103J	Ceramic	10nF	50V	
C2140	ECKC1H103J	Ceramic	10nF	50V	
C2141	ECCR1H090J	Ceramic	9pF	50V	
C2142	ECCR1H151J	Ceramic	150pF	50V	
C2149	ECCR1H100J	Ceramic	10pF	50V	
C2150	ECKC1H103J	Ceramic	10nF	50V	· · · · · · · · · · · · · · · · · · ·
C2151	ECKC1H103J	Ceramic		50V	
			10nF		
C2152	ECKC1H103J	Ceramic	10nF	50V	
C2153	ECEA1CU220	Electrolytic	22µF	16V	
C2154	ECKC1H103J	Ceramic	10nF	50V	
C2155	ECKC1H103J	Ceramic	10nF	50V	
C2156	ECEA1CU221	Electrolytic	220µF	16V	
C2157	ECEA1HNR47	Electrolytic	0.47µF	50V	
C2158	ECKC1H103J	Ceramic	10nF	50V	
C2159	ECEA1CU101	Electrolytic	100µF	16V	
C2160	ECEA1CU221	Electrolytic	220µF	16V	
C2161	ECEA1CU100	Electrolytic	10µF	16V	
C2162	ECKC1H103J	Ceramic	10nF	50V	
C2163	ECRHA020E11	Trimmer Cap			
C2164	ECCR1H180J	Ceramic	18pF	50V	
C2165	ECKC1H103J	Ceramic	10nF	50V	
C2166	ECOM1H472JZ	Plastic Film	4.7nF	50V	
C2167	ECQM1H472JZ	Plastic Film	4.7nF	50V	
C2168	ECKC1H103J	Ceramic	10nF	50V	
C2169	ECKC1H103J	Ceramic	10nF	50V	
C2170	ECKC1H103J	Ceramic	10nF	50V	
C2201	ECQM1H102KZ	Plastic Film	1nF	50V	
C2202	ECQM1H822J	Plastic Film	8.2nF	50V	
C2203	ECQM1H273J	Plastic Film	27nF	50V	
C2204	ECQM1H102KZ	Plastic Film	1nF	50V	
C2205	ECEA1CU100	Electrolytic	10μ F	16V	
C2206	ECEA50ZR47	Electrolytic	0.47µF	50V	
C2207	ECQV1H224JZ	Plastic Film	220nF	50V	·
C2208	ECQV1H104JZ	Plastic Film	100nF	50V	
C2209	ECQV1H224JZ	Plastic Film	220nF	50V	
C2210	ECQV1H224JZ	Plastic Film	220nF	50V	
C2210	ECQV1H104JZ	Plastic Film	100nF	50V	
C2212	ECKC1H103J	Ceramic	10nF	50V	
C2213	ECEA1CU101	Electrolytic	100µF	16V	
C2216	ECEA1EN4R7	Electrolytic	4.7µF	25V	
C2217	ECEA1EN4R7	Electrolytic	4.7µF	25V	
C2218	ECQM1H473JZ	Plastic Film	47nF	50V	
C2219	ECEA1CN470	Electrolytic	47µF	16V	
C2220	ECQV+H474JZ	Plastic Film	470nF	50V	
C2221	ECQP1562JZ	Plastic	5.6nF	100V	

Ref. No.	Part No.		otion		
C2222	ECQM1H223JZ	Plastic Film 22nF 50V			
C2223	ECEA1CU101	Electrolytic	100µF	16V	
C2224	ECCR1H120J	Ceramic	12pF	50V	
C2225	ECQM1H102KZ	Plastic Film	1nF	50V	
C2226	ECQV1H104JZ	Plastic Film	100nF	50V	
C2227 .	ECEA1CN470	Electrolytic	47µF	16V	
C2231	ECEA1EN3R3	Electrolytic	3.3µF	25V	
C2232	ECEA1CN470	Electrolytic	47µF	16V	
C2237	ECKC1H103J	Ceramic	10nF	50V	
C2238	ECEA1HU010	Electrolytic	1µF	50V	
C2239	ECKC1H103J	Ceramic	10nF	50V	
C2240	ECEA1HU010	Electrolytic	1µF	50V	
	ECEA1HN010	-		50V	
C2241		Electrolytic	1µF		
C2242	ECEA1HN010	Electrolytic	1µF	50V	
C2246	ECEA1CN470	Electrolytic	47µF	16V	
C2247	ECEA1CU101	Electrolytic	100µF	16V	
C2248	ECEA1CU101	Electrolytic	100µF	16V	
C2252	ECKC1H103J	Ceramic	10nF	50V	
C2303	ECEA1CU101	Electrolytic	100µF	16V	
C2304	ECEA1EN4R7	Electrolytic	4.7µF	25V	
C2305	ECQM1H392JC	Plastic Film	3.9nF	50V	
C2306	ECEA1CU470	Electrolytic	47µF	16V	
C2307	ECEA1EN4R7	Electrolytic	4.7µF	25V	
C2308	ECQM1H103KZ	Plastic Film	10nF	50V	
C2309	ECQV1H224JZ	Plastic Film	220nF	50V	
C2310	ECQM1H103KZ	Plastic Film	10nF	50V	
C2311	ECEA1CU471	Electrolytic	470µF	16V	
C2321	ECQM1H392JC	Plastic Film	3.9nF	50V	-
C2322	ECEA1CN100	Electrolytic	10µF	16V	
C2326	ECQV1H124JZ	Plastic Film	120nF	50V	·
C2327	ECQM1H103KZ	Plastic Film	10nF	50V	
C2328	ECEA1CN100	Electrolytic	10µF	16V	
C2351	ECQM1H183J	Plastic Film	18nF	50V	
C2352	ECQM1H183J	Plastic Film	18nF	50V	
C2353	ECEA1HGNR47	Electrolytic	0.47µF	50V	
C2354	ECEA1HGNR47	Electrolytic	0.47µF	50V	
C2355	ECEA1EGE221	Electrolytic	220µF	25V	
C2356	ECEA1EGE221	Electrolytic	220µF	25V	
C2357	ECEA1VGE470	Electrolytic	47µF	35V	
C2358	ECEA1VGE470	Electrolytic	47µF	35V	
C2359	ECQV1H104JZ	Plastic Film	100nF	50V	
C2360	ECQV1H104JZ	Plastic Film	100nF	50V	
C2361	ECEA1HGE102	Electrolytic	1000µF	50V	
C2362	ECEA1HGE102	Electrolytic	1000µF	50V	
C2363	ECEA1HGE010	Electrolytic	1µF	50V	
C2364	ECEA1VGE470	Electrolytic	47µF	35V	
C2365	ECEA1HGE101	Electrolytic	100µF	50V	
C2366	ECQM1H823J	Plastic Film	82nF	50V	
C2367	ECQM1H823J	Plastic Film	82nF	50V	
C2368	ECES1HU472	Electrolytic	4700µF	50V	
C2369	ECEA1HGE102	Electrolytic	1000µF	50V	
C2370	ECQM1H273J	Plastic Film	27nF	50V	
C2371	ECQM1H273J	Plastic Film	27nF	50V	
C2372	ECQM1H472JZ	Plastic Film	4.7nF	50V	
C2373	ECQM1H472JZ	Plastic Film	4.7nF	50V	
C2401	ECEA1EN4R7	Electrolytic	4.7µF	25V	
C2410	ECEA1CN100	Electrolytic	10µF	16V	
C2411	ECEA1HN4R7	Electrolytic	4.7µF	50V	
C2412	ECEA1CU101	Electrolytic	100µF	16V	
C2413	ECEA1CU470	Electrolytic	47μF	16V	
C2414	ECEA1CU470	Electrolytic	47µF	16V	
C2415	ECEA1HN010	Electrolytic	1µF	50V	
C2416	ECEA1HN010	Electrolytic	1µF	50V	
C2417	ECEA1CN100	Electrolytic	10µF	16V	
C2418	ECEA1HN010	Electrolytic	1µF	50V	
C2419	ECEA1HN010	Electrolytic	1µF	50V	
C2423	ECEA1CU101	Electrolytic	100µF	16V	
		-			
C2424	ECKC1H103J	Ceramic	10nF	50V	
C2425	ECEA1CU471	Electrolytic	470µF	16V	
C2426	ECEA1HN010	Electrolytic	1µF	50V	
C2427	ECEA1HN010	Electrolytic	1µF	50V	
C2428	ECEA1CN100	Electrolytic	10µF	16V	

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Ref. No.	Part No.	Description
C2429	ECEA1CN100	Electrolytic 10µF 16V
C2430	ECEA1CU100	Electrolytic 10µF 16V
C2431	ECQV1H104JZ	Plastic Film 100nF 50V
C2432	ECEA1CU221	Electrolytic 220µF 16V
C2433	ECEA1CN100	Electrolytic 10µF 16V
C2434	ECEA1HN010	Electrolytic 1µF 50V
C2435	ECEA1HN010	Electrolytic 1µF 50V
C2437	ECEA1HN010	Electrolytic 1µF 50V
C2438	ECEA1EN4R7	Electrolytic 4.7µF 25V
C2439	ECEA1EN4R7	Electrolytic 4.7µF 25V
C2441	ECCR1H101J	Ceramic 100pF 50V
C2442	ECCR1H101J	Ceramic 100pF 50V
C2444	ECEA1CU470	Electrolytic 47µF 16V
C2445	ECEA1HN010	Electrolytic 1µF 50V
.C2446	ECEA1HN010	Electrolytic 1µF 50V
C2447	ECEA1EN4R7	Electrolytic 4.7µF 25V
C2448	ECEA1HN010	Electrolytic 1µF 50V
C2449	ECEA1EN4R7	Electrolytic 4.7µF 25V
C2450	ECEA1HN010	Electrolytic 1µF 50V
C2453	ECEA1CN100	Electrolytic 10µF 16V
C2456	ECEA1CN100	Electrolytic 10µF 16V
C2461	ECEA1HU2R2	Electrolytic 2.2µF 50V
C2462	ECQV1H104JZ	Plastic Film 100nF 50V
C2463	ECEA1CU101	Electrolytic 100µF 16V
C2464	ECKC1H103J	Ceramic 10nF 50V
C2601	ECKC1H103J	Ceramic 10nF 50V
C2602	ECEA1EN4R7	Electrolytic 4.7µF 25V
C2603	ECEA1CN100	Electrolytic 10µF 16V
C2606	ECEA1CU471	Electrolytic 470µF 16V
C2607	ECEA1CU100	Electrolytic 10µF 16V
C2608	ECQV1H104JZ	Plastic Film 100nF 50V
C2609	ECEA1EN4R7	Electrolytic 4.7μF 25V
C2610	ECEA1CU470	Electrolytic 47µF 16V
C2611	ECEA1CU470	Electrolytic 47µF 16V
C2612	ECEA1CN100	Electrolytic 10µF 16V
C2612	ECEA1CU471	Electrolytic 470µF 16V
C2614	ECKC1H271J	Ceramic 270pF 50V
C2619	ECKC1H471J	Ceramic 270pF 50V
C2627	ECEA1EN4R7	
C2628	ECEA1CU100	
C2629	ECEA1CN220	
02029		Electrolytic 22µF 16V
	COILS	
L12	TLT082L991R	COIL 8.2µH
L16	TLT082L991R	COIL 8.2µH
L17	TLT082L991R	COIL 8.2µH
L18	TLT082L991R	COIL 8.2µH
L101	TLT015K991R	COIL 1.5µH
L103	TLTR33L991R	COIL 0.33µH
L104	TLT120K991R	COIL
L105	EIV7EN027B	COIL
L107	EIV1EG040B	TRANSFORMER
L109	TLT560K991R	COIL
L120	TLT082L991R	COIL 8.2µH
L121	TLT100K991R	COIL 10µH
L171	TLT082L991R	COIL 8.2µH
L174	TLTR33K991R	COIL 0.33µH
L175	TSC937	CHOKE
L303	TLT100K991R	COIL 10µH
L351	TLT181K991R	COIL 180µH
L352	TLT181K991R	COIL 180µH
L353	TLT181K991R	COIL 180µH
L355	TSC937	CHOKE
L356	TSC937	CHOKE
L357	TSC937	CHOKE
L451	TLT082L991R	COIL 8.2µH
L552	ELC08D055	COIL
L553	ELH5L403	COIL A
L554	ELC12B004	COIL 🛕
L555	TSC937	CHOKE
L602	TLT100J991R	COIL 10µH
L603	TLK158066	COIL
L605	EIK7EG013B	COIL
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Ref. No.	Part No.	Description
L606	EIK7EG013B	COIL
L607	EIK7EG012B	COIL
L609	EIK7EG011B	COIL
L681	TLT220K991R	COIL 22µH
L682	TLT390K991R	COIL 39µH
L752	ELC10D006	COIL
L801	ELF18D650L	LINE FILTER
L802	TLP15574E	LINE FILTER
L803	TSC925-4	CHOKE
L804	TSC925-4	CHOKE
L806	TSC925-4	CHOKE
L807	TLQ056K236B	COIL 5.6µH
L808	TLT101K991R	COIL 100µH
L812	TLP15574E	LINE FILTER
L852	TSC937	CHOKE
L853	TLT030L119C	COIL 3µH
L855	TSC925-4	CHOKE
	TSC925-4	CHOKE
L857		
L1101	TLT542K991K	
L1102	EIR7QG001B	COIL
L1201	TLQ082K236B	COIL 8.2µH
L1202	TLQ082K236B	COIL 8.2µH
L2101	EIV7EN036B	TRANSFORMER
L2104	EIS7EN009B	TRANSFORMER
L2105	EIS7EN009B	TRANSFORMER
L2106	TLI157754X	COIL
L2113	TLT120K991R	COIL 12µH
L2151	EIV7EN029B	COIL
L2152	TLT150K991R	COIL 15µH
L2153	TLT150K991R	COIL 15µH
L2201	EIR7QG017B	COIL
L2202	TLT102K991R	COIL 1mH
L2203	EIS7EG015B	COIL
L2205	TSC925-4	CHOKE
L2232	TLT392J993R	COIL 3.9mH
L2301	TLT100K991R	COIL 10µH
LC601	TLK153162E	COIL
LC2230	ELB5A074	L-C TRAP
DL301	TLK160860E	COIL
DL601	SDL145D	DELAY LINE
	TRANSFORME	RS
T101	EIV1EG041B	TRANSFORMER
T531	ETH19Y53AY	TRANSFORMER
T551	TLF15542F	FBT
		TRANSFORMER
T801	ETS49K422A	TRANSFORMER
T1201	ETP35KE65E	TRANSFORMEN
	DIODES	
D102	MA858TA5	DIODE
D103	MA858TA5	DIODE
D103 D171		
	MA858TA5	DIODE DIODE
D171	MA858TA5 MA4082	DIODE DIODE
D171 D174	MA858TA5 MA4082 MA165TA5	DIODE DIODE
D171 D174 D177	MA858TA5 MA4082 MA165TA5 MA150TA	DIODE DIODE DIODE
D171 D174 D177 D179	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H	DIODE DIODE DIODE ZENER DIODE
D171 D174 D177 D179 D181	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE
D171 D174 D177 D179 D181 D182	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE
D171 D174 D177 D179 D181 D182 D201	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082 MA165TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE
D171 D174 D177 D179 D181 D182 D201 D202	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082 MA165TA5 MA165TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082 MA165TA5 MA165TA5 MA165TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082 MA165TA5 MA165TA5 MA165TA5 MA165TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE DIODE DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204 D205 D206	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082 MA165TA5 MA165TA5 MA165TA5 MA165TA5 MA165TA5 MA165TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204 D205 D206 D303	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082 MA165TA5 MA165TA5 MA165TA5 MA165TA5 MA165TA5 MA165TA5 MA165TA5 MA165TA5 MA165TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204 D205 D206 D303 D305	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA165TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204 D205 D206 D303 D305 D306	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA165TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204 D205 D206 D303 D305 D306 D307	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA165TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204 D205 D206 D303 D305 D306 D307 D313	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082 MA165TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204 D205 D206 D303 D305 D306 D307 D313 D314	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082 MA165TA5 MA4130 MA4130 MA4130 MA4130 MA4130 MA4033M	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204 D205 D206 D303 D305 D306 D307 D313 D314 D319	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082 MA165TA5 MA4130 MA4130 MA4130 MA4130 MA4130 MA65TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE ZENER DIODE DIODE DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204 D205 D206 D303 D305 D306 D307 D313 D314 D319	MA858TAS MA4082 MA165TAS MA150TA MA4047H MA4082 MA4082 MA165TAS MA4130 MA4130 MA4130 MA4130 MA4130 MA4130 MA65TAS MA165TAS MA165TAS	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE
D171 D174 D177 D179 D181 D182 D201 D202 D203 D204 D205 D206 D303 D305 D306 D307 D313 D314 D319	MA858TA5 MA4082 MA165TA5 MA150TA MA4047H MA4082 MA4082 MA165TA5 MA4130 MA4130 MA4130 MA4130 MA4130 MA65TA5	DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE ZENER DIODE DIODE DIODE

Ref. No.	Part No.	Description
D330	MA858TA5	DIODE
D403	MA27TA5	DIODE
D451	ERA15-02V3	DIODE
D452	MA165TA5	DIODE
D453	MA165TA5	DIODE
D501	ERA15-02V3	DIODE
D505	MA165TA5	DIODE
D508	MA4051M	ZENER DIODE
D510	MA165TA5	DIODE
D541 D551	MA4360M ERA22-02V3	ZENER DIODE DIODE
D552	MA167TA5	DIODE
D603	MA4056H	ZENER DIODE
D604	MA858TA5	DIODE
D671	MA858TA5	DIODE
D753	ERB06-15	DIODE
D754	TVSRU2AM	DIODE
D755	MA4200M	ZENER DIODE
D757	MA165TA5	DIODE
D758	MA165TA5	DIODE
D801	D4SB80Z	RECTIFIER
D804	232266296009	VARISTOR POSISTOR
D805	232266296009 ERA22-04V3	DIODE
D807 D809	ERA22-02V3	DIODE
D810	ERA22-08V3	DIODE
D811	ON3105.TV	PHOTO ISOLATOR \triangle
D812	MA150TA	DIODE
D851	TVSC2408M	DIODE
D852	EU02	DIODE
D853	ERD32-02L7	DIODE
D854	TVSSR2KL	ZENER DIODE
D855	ERD32-02L7	DIODE
D1101	PN323B-LFHT	PHOTO DIODE
D1205	MA165TA5	DIODE
D1206	MA165TA5	DIODE
D1207	MA165TA5	DIODE
D1208	TVSS1WBS10 MA165TA5	RECTIFIER DIODE
D1217	MA165TA5	DIODE
D1221	MA4082H	ZENER DIODE
D1225	MA4082	ZENER DIODE
D1228	MA4082	ZENER DIODE
D1229	MA4082	ZENER DIODE
D1231	MA165TA5	DIODE
D1232	MA165TA5	DIODE
D1244	MA165TA5	DIODE
D1251	LN81RPHL	L.E.D.
D1253	LN526GALTV	L.E.D. (7 SEGMENT)
D1255	LN063183P6	L.E.D. BLOCK
D1267	MA4082	ZENER DIODE
D1268	MA4082	ZENER DIODE
D1310	MA4091M	ZENER DIODE
D1311	MA165TA5 MA165TA5	DIODE
D1312	MA4091M	DIODE ZENER DIODE
D1315	MA700TA5	DIODE
D2151	MA858TA5	DIODE
D2152	MA858TA5	DIODE
D2153	MA858TA5	DIODE
D2162	MA4051	ZENER DIODE ·
D2201	MA700TA5	DIODE
D2202	MA165TA5	DIODE
D2203	MA165TA5	DIODE
D2204	MA700TA5	DIODE
D2205	MA165TA5	DIODE
D2207	MA165TA5	DIODE
D2209	MA165TA5	DIODE
D2211	MA165TA5	DIODE
D2215	MA700TA5	DIODE
D2216	MA700TA5	DIODE
D2304	MA165TA5	DIODE

Ref. No.	Part No.	Description
D2351	TVSRD13FB	ZENER DIODE
D2401	MA165TA5	DIODE
D2402	MA165TA5	DIODE
D2405	MA165TA5	DIODE
D2406	MA165TA5	DIODE
D2408	MA165TA5	DIODE
D2409	MA165TA5	DIODE
D2410	MA165TA5	DIODE
D2411	MA165TA5	DIODE
D2603	MA165TA5	DIODE
D2605	MA165TA5	DIODE
D2607	MA165TA5	DIODE
	MA150TA	DIODE
D2610	MA165TA5	DIODE
D2612		
D2614	MA165TA5	
D2615	MA700TA5	DIODE
D2628	MA858TA5	DIODE
D2629	MA165TA5	DIODE
	INTEGRATED C	RCUITS
IC70	UPC574J	REGULATOR
IC101	M51367SP	I.C.
	SAB3035	CITAC I.C.
IC171		AUDIO CONTROL I.C.
IC201	AN5836	
IC451	TDA3654	VERTICAL OUT I.C.
IC501	TDA2579A	SYNC CIRCUIT I.C.
IC601	TDA4555	I.C.
IC602	TDA3505	I.C.
IC651	TDA4565	I.C.
IC801	STR54041-M	REGULATOR A
IC851	L78M12MRB	12V REGULATOR
IC1101	UPC1474HA	I.R. RECEIVER I.C.
IC1202	PCD8582	MEMORY I.C.
IC1203	MAB8461PW134	MICROPROCESSOR I.C.
IC1204	L78M05MRB	5V REGULATOR I.C.
IC1205	SAA1061	DISPLAY DRIVER I.C.
IC2101	AN5136K	I.C.
IC2102	AN5215	I.C.
IC2151	TDA2543	I.C.
IC2170	TC4011BP	1.C.
IC2201	TDA3803A	I.C.
IC2270	UPD4066BC	SWITCHING I.C.
IC2271	L78M12MRB	12V REGULATOR
IC2272	UPD4023BC	IC
IC2302	TDA3810	AMBIENCE CONTROL I.C.
IC2351	STK4392TV	IC .
IC2401	M51321P	SWITCHING I.C.
IC2402	L78M12MRB UPD4066BC	12V REGULATOR SWITCHING I.C.
IC2403		
IC2601	M51326P	SWITCHING I.C.
	TRANSISTORS	
Q103	2SC2636-T	TRANSISTOR
Q104	UN4211TA	TRANSISTOR
Q105	2SC1685-TA	TRANSISTOR
Q201	UN4111TA	TRANSISTOR
Q202	UN4211TA	TRANSISTOR
Q202 Q304	2SC1685-TA	TRANSISTOR
Q304 Q306	UN4211TA	TRANSISTOR
		TRANSISTOR
Q351	2SC2923-RL	
Q352	2SC2923-RL	TRANSISTOR
Q353	2SC2923-RL	TRANSISTOR
0000	2SC1685-TA	TRANSISTOR
Q365	2SC1685-TA	TRANSISTOR
Q365 Q366		TRANSISTOR
	2SC1685-TA	
Q366	2SC1685-TA 2SC1685-TA	TRANSISTOR
Q366 Q367		
Q366 Q367 Q401	2SC1685-TA	TRANSISTOR
Q366 Q367 Q401 Q501	2SC1685-TA 2SD836ALB	TRANSISTOR TRANSISTOR
Q366 Q367 Q401 Q501 Q502	2SC1685-TA 2SD836ALB 2SC1685-TA	TRANSISTOR TRANSISTOR TRANSISTOR
Q366 Q367 Q401 Q501 Q502 Q503 Q504	2SC1685-TA 2SD836ALB 2SC1685-TA 2SC1685-TA UN4213TA	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR
Q366 Q367 Q401 Q501 Q502 Q503	2SC1685-TA 2SD836ALB 2SC1685-TA 2SC1685-TA	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR

Ref. No.	Part No.	Description
Q601	2SC1685-TA	TRANSISTOR
Q602 Q654	2SC1685-TA UN4213TA	TRANSISTOR
Q671	2SC1685-TA	TRANSISTOR
Q672	2SA719-TA	TRANSISTOR
Q673	2SD965-R	TRANSISTOR
Q674	2SA564A	TRANSISTOR
Q675	2SC1685-TA	TRANSISTOR
Q751	2SC1685-TA	TRANSISTOR
Q752	2SA564A	TRANSISTOR
Q753	2SD762-P	TRANSISTOR
Q801	2SD965-R	TRANSISTOR
Q802	2SD965-R	TRANSISTOR
Q1205	2SC1685-TA	TRANSISTOR
Q1207 Q1208	UN4213TA UN4215TA	TRANSISTOR
Q1209	2SC1685-TA	TRANSISTOR
Q1210	UN4215TA	TRANSISTOR
Q1211	UN4215TA	TRANSISTOR
Q1212	UN4211TA	TRANSISTOR
Q1217	UN411FTA	TRANSISTOR
Q1220	UN411FTA	TRANSISTOR
Q1225	UN4210TA	TRANSISTOR
Q1227	UN4112TA	TRANSISTOR
Q1228	UN411FTA	TRANSISTOR
Q1230	UN4215TA	TRANSISTOR
Q1232	2SA564A	TRANSISTOR
Q1235	2SC1685-TA	TRANSISTOR
Q1236	UN411FTA	TRANSISTOR
Q1310	2SA564A	TRANSISTOR
Q1311	2SC1685-TA 2SA564A	TRANSISTOR
Q1312 Q1313	2SC1685-TA	TRANSISTOR
Q2101	BF370	TRANSISTOR
Q2103	2SC2636-T	TRANSISTOR
Q2110	2SC2636-T	TRANSISTOR
Q2111	2SA564A	TRANSISTOR
Q2151	UN4212TA	TRANSISTOR
Q2152	UN4212TA	TRANSISTOR
Q2160	UN4213TA	TRANSISTOR
Q2201	2SC1685-TA	TRANSISTOR
Q2207	UN4212TA	TRANSISTOR
Q2210	UN4211TA	TRANSISTOR
Q2401	UN4123TA	TRANSISTOR
Q2403	UN4211TA	TRANSISTOR
Q2404	UN4212TA	TRANSISTOR
Q2405	2SD637-RS	TRANSISTOR
Q2406 Q2407	UN4212TA UN4212TA	TRANSISTOR
Q2407 Q2408	UN4112TA	TRANSISTOR
Q2409	UN4212TA	TRANSISTOR
Q2410	UN4212TA	TRANSISTOR
Q2413	2SC1318A	TRANSISTOR
Q2414	2SC1685-TA	TRANSISTOR
Q2415	2SC1685-TA	TRANSISTOR
Q2416	2SC1685-TA	TRANSISTOR
Q2417	2SC1685-TA	TRANSISTOR
Q2420	2SC1685-TA	TRANSISTOR
Q2421	2SC1685-TA	TRANSISTOR
Q2422	2SC1685-TA	TRANSISTOR
Q2423	2SC1685-TA	TRANSISTOR
Q2424	2SC1685-TA	TRANSISTOR
Q2426 Q2427	2SC1685-TA UN4212TA	TRANSISTOR
Q2427 Q2428	2SC1685-TA	TRANSISTOR
Q2456	2SC1685-TA	TRANSISTOR
Q2601	2SD637-RS	TRANSISTOR
Q2602	2SD637-RS	TRANSISTOR
Q2604	2SA564A	TRANSISTOR
Q2605	2SD639	TRANSISTOR
Q2606	UN4211TA	TRANSISTOR
Q2608	UN4213TA	TRANSISTOR

Ref. No.	Part No.	Description
	OTHERS	
F801	195-3.15	FUSE A
J234	TJB17929	EXTERNAL SP. TERMINAL
S251	ESD2760	SPEAKER SELECTOR
S301	EVQR1AL13	SERVICE SWITCH
S801	ESB99267S	POWER SWITCH
S1201	EVQQSC11G	SYSTEM
S1207	EVQQSC13K	VOL -
S1208	EVQQSC13K	NORMAL
S1209	EVQQSC11G	NORMAL STORE
S1213	EVQQSC13K	VOL +
S1215	EVQQSC11G	STORE TUNE
\$1218	EVQQSC13K	CH -
S1220 S1222	EVQQSC13K EVQQSC13K	TV / AV
S1222	EVQQSC11G	SEARCH +
S1228	EVQQSC11G	SEARCH -
S1229	ESB64605	1/11, 1 + 11
S1230	ESB64605	AV STEREO / MONO
\$1231	EVQQSC13K	CONTRAST -
\$1232	EVQQSC13K	CONTRAST +
S1233	EVQQSC13K	BRIGHT -
S1234	EVQQSC13K	BRIGHT +
S1235	EVQQSC13K	COLOUR -
S1236	EVQQSC13K	COLOUR +
X101	TFCH389VK10	FILTER
X102	EFOA500KS5A	FILTER
X103	EFCS5R5MW3	FILTER
X104	EFCA6R5MB3	FILTER
X105	EFCS6R0MW3	FILTER
X171	TSS120M2	CRYSTAL
X601	TSS2003-M	CRYSTAL
X671	TLK66056-1	FILTER
X1201	TSS970D	CRYSTAL
X2101	EFCS5R5MS3	FILTER
X2102	EFCS5R5MS4	FILTER
X2103	EFCS5R74MS4A	FILTER
X2104	EFCS5R74MS4A	FILTER
X2105 X2106	EFCS6R0MS4 TFCH389VK09	FILTER
X2107	EFCS6R0MS4	FILTER
X2108	EFCA6R0MB3	FILTER
X2151	TFCH324SK02	FILTER

Manuel de Service

Supplement.

DATE: JANUARY,1990.

Références des

téléviseurs concernés.

TC-24/28A1F Châssis ALPHA-2W

Téléviseur Couleur

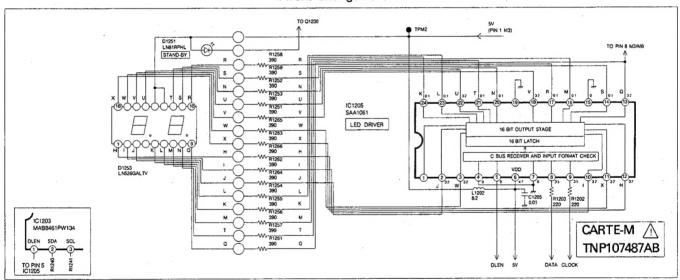
Utiliser ce supplement avec le manuel de dépannage des téléviseurs.

Objet : Changement de référence du LED et des haut - parleurs 'Dome'.

Cette modification est effective pour les modèles fabriqués à partir de Decembre.

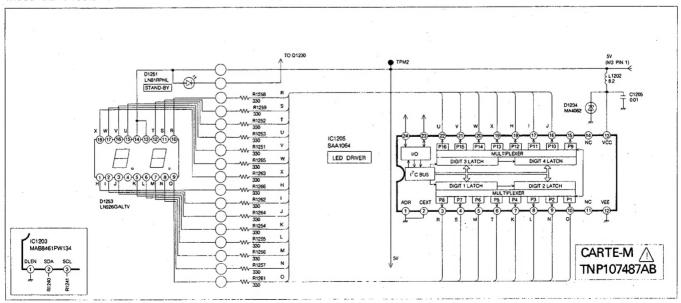
Pièce du circuit 'M'.

Avant changement .

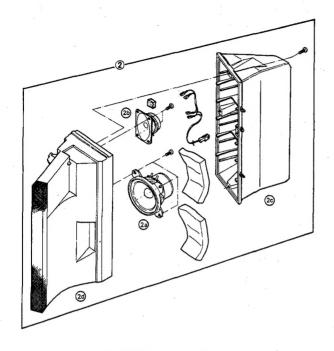


Pièce du circuit 'M'.

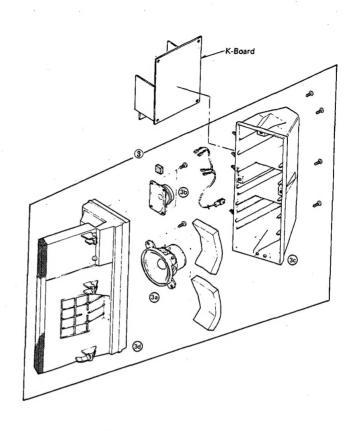
Après changement.



EMPLACEMENT DES PIÈCES



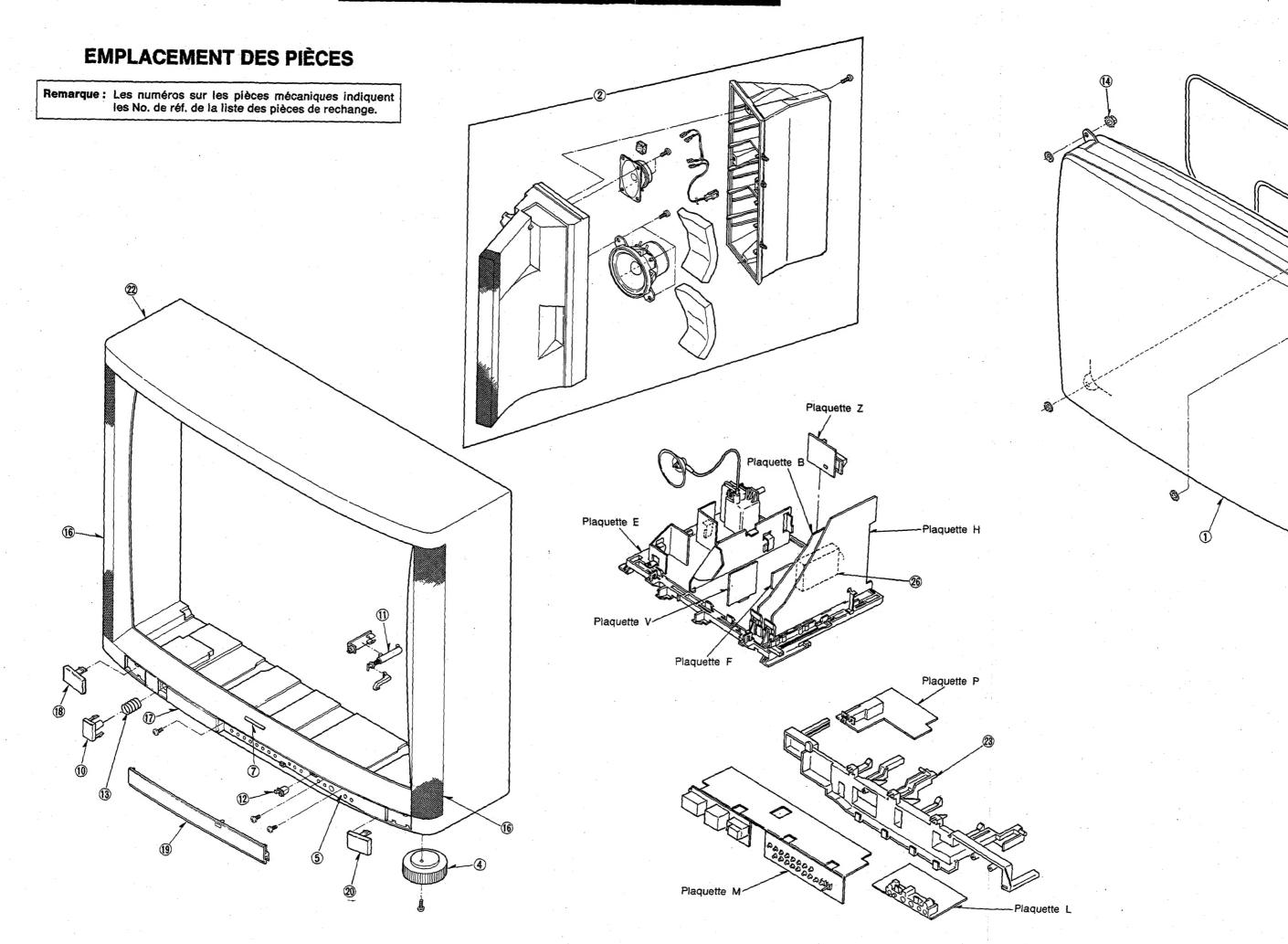
Nota: Il existe deux rérérences de haut parleurs pour téléviseurs. Quand vous commandez un haut parleur, prière de commander la référence inscrite sur le haut - parleur que vous changez.



LISTE DES PIÈCES DE RECHANGE

Ref No.	Original Part No.	Description	New Part No.	Description	
MISC	ELLANEO	JS COMPONENTS			
2)	EAB1076LB	SPEAKER UNIT COMPLETE (L)			
or	EAB1064LF	SPEAKER UNIT COMPLETE (L)			
2a)	EAS10PL602A				
20)	EAS7DH02D	TWEETER SPEAKER			
20)	TZS9EH005	SPEAKER ENCLOSURE (BACK L)			
2d)	TZS9EH006	SPEAKER ENCLOSURE (FRONT L)			
3)	EAB1076RB	SPEAKER UNIT COMPLETE (R)			
or	EAB1064RFA	SPEAKER UNIT COMPLETE (R)			
3a)	EAS10PL602A				
36)	EAS7DH02D	TWEETER SPEAKER			
3 c)	TZS9EH007	SPAEKER ENCLOSURE (BACK R)			
3 d)	TZS9EH008	SPEAKER ENCLOSURE (FRONT R)			
DIODI	ES	a .			
D1234	NONE		MA 4 0 8 2	DIODE	
I.C.s					
IC1205	SAA1061	DISPLAY DRIVER	SAA1064	DISPLAY DRIVER	
RESIS	STORS				
R1251	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARRON A GEN EN	
R1252	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD2513331	CARBON 0.25W 5% CARBON 0.25W 5%	330Ω 330Ω
R1253	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARBON 0.25W 5%	3300
R1254	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331		3300
R1255	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARBON 0. 25W 5%	3300
R1256	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARBON 0. 25W 5%	3300
R1257	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARBON 0. 25W 5%	3300
R1258	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARBON 0. 25W 5%	3300
R1259	ERD25TJ391	CARBON 0.25W 5% 3900	ERD25TJ331	CARBON 0. 25W 5%	3300
R1261	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARBON 0. 25W 5%	3300
R1262	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD2.5TJ331	CARBON 0.25W 5%	330Ω
R 1-263	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARBON 0.25W 5%	3300
R1264	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARBON 0.25W 5%	3300
R1265	ERD25TJ391	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARBON 0.25W 5%	330Ω
R1266	ERD25TJ391"	CARBON 0.25W 5% 390Ω	ERD25TJ331	CARBON 0.25W 5%	3300

TC-24A1F/28A1F TC-24A1F/28A1F



TC-24A1F/28A1F TC-24A1F/28A1F

